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Robust Stability Of
Uncertain Singular
Abstract

This paper is
concerned with the
problem of delay-
dependent robust
stability for uncertain
discrete singular systems
with time-varying delays.
Without introducing the

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free-weighting matrice...

Singular Time

Robust stability for
uncertain discrete

singular systems ...

In this study, the robust
stochastic stability
problem for discrete-
time uncertain singular
Markov jump systems
with actuator saturation
is considered. A sufficient
condition that guarantees
that the discrete-time

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singular Markov jump systems with actuator saturation is regular, causal and stochastically stable is established.

Robust stability for discrete-time uncertain singular ...

The robust stability problem of continuous-time singular systems with multiple state delays and bounded parametric

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uncertainties is considered. Both commensurate and non-commensurate delays are investigated. On the basis of the linear fractional transformations (LFTs) framework and μ -analysis, a systematic approach is derived to convert the robustness problem to a robust nonsingularity problem.

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Robust stability of
uncertain singular time-
delay systems ...

Abstract— This brief
investigates the problem
of robust D-stability anal-
ysis for uncertain discrete
singular systems with
state delay and structured
uncertainties. Sufficient
conditions are developed
to ensure that, when the
nominal discrete singular
delay system is regular,

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causal and all its finite poles are located within a specified disk, the uncertain system still pre-

Robust d-stability analysis for uncertain discrete ...

For a class of uncertain discrete singular time-delay systems with norm-bounded parameter uncertainties and constant Manuscript The

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authors thank the
anonymous referees for
their helpful comments...

Uncertain Singular Time Delay Systems

Delay-Dependent
Robust Stability of
Uncertain Discrete ...

The robust stability and
stabilization, and H-
infinity control problems
for discrete-time

Markovian jump singular
systems with parameter
uncertainties are

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discussed. Based on the
restricted system
equivalent (r.s.e.)
transformation and by
introducing new state
vectors, the singular
system is transformed
into a discrete-time
Markovian jump
standard linear system,
and the linear matrix ...

Robust stability and H-
infinity control for

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uncertain ...

The robust stability and robust stabilization for time delay discrete singular systems with parameter uncertainties is discussed. A delay dependent linear matrix inequality (LMI) condition for the time delay discrete systems to be nonsingular and stable is given.

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Delay dependent
robust stability and
stabilization for ...

Therefore, very recently,
Xu and his associates ,
studied the robust D-
stability (i.e., robust
eigenvalue clustering in a
specified circular region)
problem of a linear
discrete singular delay
system with structured
(elemental) parameter
uncertainties. Here it

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should be emphasized
that the robust D -stability
analysis of linear
uncertain discrete
singular delay systems
should consider not only
the D -stability robustness
but also system regularity
and causality
simultaneously.

Robust D -stability
analysis for linear
uncertain discrete ...

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[stabmargin,wcu] =
robust(usys) calculates
the robust stability
margin for an uncertain
system. This stability
margin is relative to the
uncertainty level
specified in usys. A
robust stability margin
greater than 1 means that
the system is stable for all
values of its modeled
uncertainty. A robust
stability margin less than

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1 means that the system becomes unstable for some values of the uncertain elements within their specified ranges.

Robust stability of uncertain system - MATLAB robstab
Robust stability is very important because of various uncertainties [21], and in this section

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we give the robust stability margins of the uncertain closed loop. By calculation, the robust stability margin for the H closed loop is 1.56, and the destabilizing frequency is 625.9 rad/s; the corresponding values are 6.29 and 346 rad/s for the μ closed loop. Their stability robustness margins greater than 1 mean that the uncertain

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system is stable for all
values of its modeled
uncertainty.

Singular Time Delay Systems

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Topics

First, a delay-dependent
linear matrix inequality
condition is obtained,
which guarantees that the
uncertain singular time-
delay systems subject to
actuator saturation are

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not only robustly
exponential admissible,
but also satisfy H_∞
performance via a
tighter integral inequality
and the method of free-
weighting matrices.

IET Digital Library: H_∞
robust exponential
stability and ...

Then, with this criterion,
the problems of robust
stability and robust

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stabilization for uncertain
discrete singular delay
systems are solved, and
the delay-dependent
LMI conditions are
obtained.

Robust Stability For Uncertain Discrete Singular Systems ...

Interest has grown
recently in the stability
analysis and control of
singular systems with

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parameter uncertainties
due to their frequent
presence in dynamic
systems, which is much
more complicated than
that of state-space
systems because
controllers must be
designed so that the
closed-loop system is not
only robustly stable, but
also regular and impulse-
free (in the continuous
case) or causal (in the

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discrete case), while the latter two issues do not arise in the state-space case.

Robust Control and Filtering of Singular Systems ...

Abstract: In this study, the robust stochastic stability problem for discrete-time uncertain singular Markov jump systems with actuator saturation

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is considered. A sufficient condition that guarantees that the discrete-time singular Markov jump systems with actuator saturation is regular, causal and stochastically stable is established.

Robust stability for discrete-time uncertain singular ...

The purpose of the robust stability problem

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is to give conditions such that the uncertain singular system is regular, impulse free, and stable for all admissible uncertainties, while the purpose of robust stabilization is to design a state feedback control law such that the resulting closed-loop system is robustly stable.

Robust stability and

Page 30/35

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stabilization for singular
systems ...

The robust stochastic
stability, stabilization and
 H_∞ control for
mode dependent
time delay discrete
Markovian jump singular
systems with parameter
uncertainties are
discussed.

Robust stability and H_∞
control for uncertain

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discrete ...

This paper deals with the
problem of delay-
dependent robust

stability of a class of
uncertain discrete
singular time-delay
systems. The considered
systems are subject to
norm-bounded
parameter uncertainties
and constant time delay.

A new approach is
introduced to take the

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relationship between the
fast and slow subsystems
of a discrete singular time-
delay system, based on
which, a strict linear ...

Delay-Dependent
Robust Stability of
Uncertain Discrete ...

In this paper, the
problem of robust
preview control for
uncertain discrete
singular systems is

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considered. First of all, by employing the forward difference for uncertain discrete singular systems, the singular augmented error system with the state vector, the input control vector, and the previewable reference signal is derived.

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Delay Systems