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Parameter

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(LMIs in Control):

Lecture 14, part C

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Robust Control, Part

2: Understanding Disk

Margin Control

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Introduction to Robust Control

We Still Here²⁰.

Uncertainty 11/4/19

ME212 Fall 2019

Week 11a: H_∞ infinity
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Sensitivity

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Serverless with Yan

Cui *Robust Stability Of
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Delay Systems
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 free-weighting matrix...

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*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

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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 robust stability problem of continuous-

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of singular systems

with multiple state
delays and bounded
parametric

uncertainties is

considered. Both

commensurate and

non-commensurate

delays are

investigated. On the

basis of the linear

fractional

transformations

(LFTs) framework and

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mu-analysis, a systematic approach is derived to convert the robustness problem to a robust nonsingularity problem.

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

Abstract— This brief investigates the problem of robust D-

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stability analysis 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, causal and all its finite poles are located within a

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Of uncertain
singular time-
pre-

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*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

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

*Delay-Dependent
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The robust stability and stabilization, and H -infinity control problems for discrete-time Markovian jump singular systems with

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Of Uncertain

parameter uncertainties are 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 ...

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The robust stability
and robust
stabilization for
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singular systems with
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uncertainties is
discussed. A
delay?dependent
linear matrix

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inequality (LMI)
condition for the
time?delay discrete
systems to be
nonsingular and
stable is given.

*Delay?dependent
robust stability and
stabilization for ...*

Therefore, very
recently, Xu and his
associates , studied
the robust D-stability

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(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 should be emphasized that the robust D-stability analysis of linear uncertain discrete

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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 ...

[stabmarg,wcu] =
robstab(usys)

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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

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

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Robust stability is very important because of various

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uncertainties [21], and in this section 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

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rad/s for the closed loop. Their stability robustness margins greater than 1 mean that the uncertain system is stable for all values of its modeled uncertainty.

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First, a delay-dependent linear

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matrix inequality

condition is obtained, which guarantees that the uncertain singular time-delay systems subject to actuator saturation are not only robustly exponential admissible, but also satisfy H_2 ?

performance ? via a tighter integral inequality and the method of free-

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? robust exponential
stability and ...*

Then, with this
criterion, the problems
of robust stability and
robust stabilization for
uncertain discrete
singular delay
systems are solved,
and the delay-
dependent LMI

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*Robust Stability For
Uncertain Discrete
Singular Systems ...*

Interest has grown recently in the stability analysis and control of singular systems with parameter uncertainties due to their frequent presence in dynamic

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of singular time delay 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 discrete case), while

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Of the latter two issues
do not arise in the
state-space case.

Delay Systems

*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

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of Uncertain

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*

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Of Uncertain Singular ...

The purpose of the robust stability problem 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

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feedback control law such that the resulting closed-loop system is robustly stable.

Robust stability and stabilization for singular systems ...

The robust stochastic stability, stabilization and H_2 control for mode-dependent time-delay discrete Markovian jump

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Singular systems with
parameter
uncertainties are
discussed.

*Robust stability and
H_∞ control for
uncertain discrete ...*

This paper deals with
the problem of delay-
dependent robust
stability of a class of
uncertain discrete
singular time-delay

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Systems. The considered systems are subject to norm-bounded parameter

uncertainties and constant time delay. A

new approach is introduced to take the relationship between the fast and slow

subsystems of a discrete singular time-delay system, based on which, a strict

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Delay-Dependent Robust Stability of Uncertain Discrete ...

In this paper, the problem of robust preview control for uncertain discrete singular systems is considered. First of all, by employing the forward difference for uncertain discrete

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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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