Robust Stability Of Uncertain Singular Time Delay Systems

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DevOne Momentum - Serverless with Yan Cui*Robust Stability Of Uncertain Singular*

AbstractThis 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 matrice...

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 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 uncertainties is considered. Both commensurate and non-commensurate delays are investigated. On the basis of the linear fractional transformations (LFTs) framework and 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-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, 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 authors thank the anonymous

referees for their helpful comments...

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 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 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.

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 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 ...

[stabmarg,wcu] = robstab(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 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 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 ? closed loop. Their stability robustness margins greater than 1 mean that the uncertain system is stable for all values of its modeled uncertainty.

Robust Stability - an overview | ScienceDirect 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 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 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 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 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 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 is to give conditions such that the uncertain singular system is regular, impulse free, and stable for all admissible un- certainties, 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 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 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 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 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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