Robust Stability Of Uncertain Singular Time Delay Systems

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Robust stability analysis and stabilisation of uncertain ...
techniques, a delay-dependent robust stability criterion for the nominal systems of a class of uncertain singular systems is established, which ensures the nominal systems are asymptotically stable. Furthermore, the delay-dependent robust

Robust Stability Analysis of Discrete Uncertain Singularly ...
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 ...

Robustness analysis and feedback stabilization of ...
Similarly, the robust stabilization problem for uncertain singular systems must consider not only stabilization but also regularization and impulse elimination, while the latter two issues do not arise in the state-space case.

Robust stability of uncertain discrete-time singular fuzzy ...
Abstract: This paper considers the problems of robust stability and stabilization for uncertain singular systems with time delay. A singular-type complete quadratic Lyapunov-Krasovskii functional (LKF) is introduced, which combines the discretization LKF method to give the linear matrix inequality (LMI) condition for the singular time-delay system to be regular, impulse free and asymptotically stable.

Robust stability of uncertain system - MATLAB robstab
Robust Stability Analysis of Discrete Uncertain Singularly Perturbed Time-Delay Systems Shing-Tai Pan1 and Ching-Fa Chen 2 1 Department of Computer Science and Information Engineering, Shu-Te University, Kaohsiung, Taiwan 824, R.O.C. 2 Department of Electronic Engineering, Kao Yuan Institute of Technology, Kaohsiung , Taiwan 821, R.O.C.

A delay-range-dependent stabilization of uncertain ...
Abstract: This note concerns the delay-dependent robust stability analysis for uncertain singular time-delay systems. The parameter uncertainty is assumed to be norm-bounded and possibly time-varying, while the time delay considered here is assumed to be constant but unknown.

Robust Stability for a Class of Uncertain Singular Time ...
In [12] and [35], the robust stability of uncertain discrete-time T–S fuzzy singular systems were studied in different ways. In [11], the variable structure control of continuous fuzzy singular ...

Robust Control | SpringerLink
The result on robust stability of uncertain discrete singular time-delay systems is also obtained and expressed in terms of LMIs. Numerical examples are given to demonstrate the applicability of the proposed method

Robust stability and stabilization for singular systems ...
The structured singular value, or ?, is the mathematical tool used by robstab to compute the robust stability margin. If you are comfortable with structured singular value analysis, you can use the mussv function directly to compute mu as a function of frequency and reproduce the results above.

Robust Stochastic Stability and Control for Uncertain ...
In this paper, we deal with the problem of robust stability analysis of uncertain discrete-time singular fuzzy systems described by a class of extended T–S fuzzy dynamic model. The parameter uncertainties are assumed to be time- varying but norm-bounded.

Robust Stability and Stabilization Criteria for Discrete ...
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

Robust Exponential Stability of Uncertain Singular ...
This paper focuses on the problems of robust stability and stabilization and robust control for uncertain singular Markovian jump systems with (x,v)?dependent noise. The parameter uncertainties appearing in state, input, disturbance as well as diffusion terms are assumed to be time?varying but norm?bounded.

Robust stability and stabilization for uncertain singular ...
This paper studies the problem of robust stability and stabilisation of uncertain neutral singular systems and develops a new stability criterion of the differential operator, ? by the final value theorem for Laplace transform.

Robust Stability, Robust Performance and Mu Analysis ...
X. Ji, H. Su, and J. Chu, “An LMI approach to robust stability of uncertain discrete singular time-delay systems,” Asian Journal of Control, vol. 8, no. 1, pp. 56–62, 2006. View at Publisher · View at Google Scholar · View at MathSciNet

Robust Preview Control for Uncertain Discrete Singular Systems
Ma, Y, Yang, P, Zhang, Q (2017) Delay-dependent robust absolute stability of uncertain Lurie singular systems with neutral type and time-varying delays. International Journal of Machine Learning and Cybernetics. 9(12): 2071 – 2080 .

Robust Stability Of Uncertain Singular
Key words Singular systems, Markovian jumping parameters, time delay, exponential stability, linear matrix inequality (LMI) Singular time-delay systems have extensive applications in electrical circuits, power systems, economics and other areas, as these systems can describe the behavior of engi- neering systems better than state-space ones [1?3] .Thus, the problem of robust stability analysis for uncertain sin- gular time-delay systems is important both in theory and practice and is of ...

Delay-dependent robust stability of uncertain discrete ...
Robust stability and stabilization of uncertain discrete singular time-delay systems based on PNP Lyapunov functional Falu Weng State Key Laboratory of Industrial Control Technology, Institute of Cyber-Systems and Control, Zhejiang University, Hangzhou 310027, China and Faculty of Electrical Engineering and Automation, Jiangxi University of ...

Robust stability and stabilization of uncertain discrete ...
In recent decade, robust stability and stabilization for uncertain singular time?delay systems have been considered by many researchers, due to the fact that the singular time?delay system model can describe a larger class of systems than traditional linear time?delay ones.

Robust stability of uncertain discrete-time singular fuzzy ...
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.