[2009-0126] Delay-dependent stability analysis for discrete singular systems with time-varying delays

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Abstract

This paper studies the problem of stability analysis for discrete singular time delay systems. Without resorting to the decomposition and equivalent transformation of the considered system, some new delay-dependent criteria are established for the considered systems to be regular, causal and stable in terms of linear matrix inequality (LMI) approach. The obtained criteria are less conservative, because the technique used in this paper makes more use of the information on the involved time-varying delays than the existing techniques do. A numerical example is given to illustrate the effectiveness and the benefits of the proposed methods.
Key words

Discrete singular systems　time-varying delays　delay-dependent stability　linear matrix inequality (LMI)

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