

## [2008-1139]Delay-Dependent Stability Criteria for Singular Time-Delay Systems

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摘要

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### Delay-Dependent Stability Criteria for Singular Time-Delay Systems

FENG Yi-Fu, ZHU Xun-Lin, ZHANG Qing-Ling

#### Abstract

This note studies the problem of singular time-delay systems. At first, the equivalence among several recent stability criteria is established, and a simplified version is derived. By using a delay decomposition method, a new stability criterion which is much less conservative than the existing ones is presented. A numerical example is given to illustrate the effectiveness and less conservatism of the new proposed stability criterion.

Key words [Delay-dependent stability](#) [singular systems](#) [linear matrix inequalities \(LMIs\)](#)

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通讯作者

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