

[2009-0686] Converse Lyapunov Theorem of Input-to-State Stability for Time-Delay Systems

收稿日期 修回日期 网络版发布日期 2010-3-15 接受日期

摘要

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分类号

[2009-0686] Converse Lyapunov Theorem of Input-to-State Stability for Time-Delay Systems

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Abstract

This paper is concerned with locally Lipschitz continuous converse Lyapunov theorem of input-to-state stability for time-delay systems. For time-delay systems with arbitrary measurable locally essentially bounded disturbances, it is shown that a locally Lipschitz continuous Lyapunov functional exist if these systems are robustly asymptotically stable. Under this result, the Lyapunov characterizations of input-to-state stability for time-delay systems are obtained.

Key words

[Input-to-state stability](#) [converse Lyapunov theorem](#) [time-delay systems](#) [locally Lipschitz](#) [Lyapunov functional](#)

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