عنوان مقاله:

A New Dynamic Output Feedback Controller Design for T-S Fuzzy Systems via LMI

محل انتشار:

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خلاصه مقاله:

In this paper three different new stabilizing dynamic output feedback controller design methods are introduced for T-S fuzzy dynamic systems. These design methods are based on the concept of dynamic parallel distributed compensation (DPDC). The controller is obtained by solving a set of linear matrix inequalities (LMIs). Moreover, decay rate condition is studied and LMI conditions for this performance criterion are obtained. An example is given to illustrate less conservative design methods lead to better system responses.

کلمات کلیدی:

T-S fuzzy model, Dynamic Parallel Distributed compensation, Linear Matrix Inequalities (LMIs)

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