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Abstract
Using the state variable switched method and the Lyapunov stability theorem, the stability analysis and controller design of T-S fuzzy time-delay switched systems and investigated in this thesis.
In this thesis, we mention some criteria and theorems for guaranteeing the continuous and discrete stabilities, and we develop the controller for each subsystem through the parallel distributed compensation (PDC). The PDC is employed to design fuzzy controllers from the T-S fuzzy models. The stabilization analysis is reduced to a problem of finding a common Lyapunov function for a set of linear matrix inequalities.
Furthermore, these methods in this thesis can be applied to cases when all individual subsystems are unstable.
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