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عنوان مقاله:

A New T-S Fuzzy Tracking Controller for Uncertain and Disturbed Nonlinear NCSs with H∞ Criterion Based Observer

محل انتشار:

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خلاصه مقاله:

This paper investigates the fuzzy tracking control problem for a class of uncertain nonlinear networked control systems (NCSs), which can be represented by a T-S fuzzy modelwith external disturbances. In transmission both networkinduced delay and packet dropout are considered. The controlscheme is based on the parallel distributed compensation (PDC) structure, a fuzzy observer and H∞ performance to attenuate the external disturbances; the stability of the whole closed-loopmodel is provided using a general Lyapunov–Krasovskii functional. The key point of the proposed approaches is toachieve conditions under a linear matrix inequalities (LMI) formulation. Finally, .numerical examples and simulation resultsare given to illustrate the effectiveness of the method

کلمات کلیدی:

tracking control, networked control system (NCS), T-S fuzzy model, Linear Matrix Inequality (LMI), observer

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