

عنوان مقاله:

Numerical schemes for optimal control of nonlinear time-delay systems with external disturbances

محل انتشار:

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نویسنده:

Seyed Mehdi Mirhosseini-Alizamini - *Department of Mathematics, Payame Noor University (PNU), P.O.Box 19395-3697, Tehran, Iran*

خلاصه مقاله:

In this paper, The homotopy perturbation method is employed to solve nonlinear time-delay systems affected by external persistent disturbances with quadratic performance index. By using the finite-step iteration of a sequence, we can get an approximate optimal control law by solving a Riccati matrix equation and two Stein matrix equations using successive approximation method. A numerical example is employed to verify the effectiveness of the proposed approach

کلمات کلیدی:

nonlinear time-delay systems; homotopy perturbation method; disturbance observer; optimal control

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