



Estimations of Solutions Convergence of Hybrid Systems Consisting of Linear Equations with Delay

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Abstract: The logic-dynamical hybrid system given by a set of subsystems which are linear differential-difference equations with constant coefficients and constant delay is investigated in the paper. The estimations of disturbances of such system are obtained. We consider the cases of stable and unstable subsystems. Besides the estimations of solutions of hybrid system given by a set of scalar subsystems are obtained.

Keywords: *Hybrid system; differential-difference equation; Lyapunov-Krasovskiy functional; stable system*

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