

# Habib Ayadi

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Title:

Exponential stabilization of time-delay KdV equation

Abstract:

Existence, stability and stabilization for time-delay PDEs remains an active area for research and a few results are obtained. Here, we study the linear KdV equation with delay in the state. The infinite dimensional backstepping method and Lyapunov-Razumikhin theory are used to achieve well-posedness and exponential stabilization of the considered system.