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CONTROLLED SYNCHRONIZATION OF TWO CART-PENDULUM SYSTEMS VIA THE INTERNET

In this paper we considered the problem of controlled synchronization of two mechatronic systems like a «car-pendulum» using "master-slave" scheme via network circuit. We used two control algorithms: method of performance-critical gradient and a PD-regulator. Theoretical analysis of these algorithms is performed here. Experimental results on real robots are presented here as well.
Keywords: network control, synchronization of oscillations, cart-pendulum control, control of oscillations.

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