

Large Scale Dynamic System Stabilization using the Principle of Dominant Subsystems Approach

Vojtech Veselý

Abstract: This paper considers the problem of stabilizing a large scale dynamic system via decentralized control using the principle of dominant subsystems approach. Sufficient conditions for the existence of local decentralized control laws stabilizing a given large scale dynamic system with dynamic and parametric uncertainties are derived in terms of controller parameters for incompletely known continuous- and discrete-time systems.

Keywords:

AMS Subject Classification: