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Abstract
The stability analyses of time-delay large-scale switched systems are investigated in this thesis. Two important methods are used to construct the switching laws for the stability analyses of time-delay large-scale switched systems. One is the state variable switched method; the other is the dwell-time switched method. Essentially, the former is that there exists state switching strategy to make the whole system stable when all the individual subsystems are unstable by means of Lyapunov stability theorem. The latter is that the total activation time ratio of stable subsystems to unstable systems will be also determined via the state solution, and the sufficient stability conditions will be derived for the time-delay large-scale switched systems with delay-independent criteria and delay-dependent criteria.

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