



Einladung zum Oberseminar Dynamische Systeme und Kontrolltheorie

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Exponential stability of linear non-autonomous coupled systems

We propose a method for studying the exponential stability of linear non-autonomous interconnected systems of differential equations based on a new concept called “integral gain.” This method employs non-coercive Lyapunov functions and Banach’s fixed-point theorem for operators in pseudometric spaces. The examples demonstrate the advantages of the small integral gain conditions over previously known small-gain conditions.

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Zu diesem Vortrag laden wir Sie herzlich ein.

gez. Sergey Dashkovskiy