Dynamical System:

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A dynamical system is a system whose state change in time. The dynamics of a system is its evolution in time.

Continuous time models:

The basic idea is to use the approximation dx/dt≈Δx/Δt to replace our continuous-time model (differential equations) by a discrete– time model (difference equations).

Stability

BIBO stable

Controllers

Feedback Control

Applications of Dynamical Systems