

EINLADUNG

ZUM MATHEMATISCHEN KOLLOQUIUM

Es spricht

Jun. Prof. Thomas Berger

(Universität Paderborn)

Zum Thema:

Analysis of system-theoretic properties of real-world processes

Abstract:

Modern model-agnostic control techniques are feasible for any system from a class defined by only a couple of structural properties. These are the relative degree and the stability of the internal dynamics. In this talk we will discuss and analyze these properties for various real-world processes ranging from multi-body systems to defibrillation processes of the human heart. We will show that the model class can be formulated in such a way that it includes systems described by ordinary differential equations, systems described by differential-algebraic equations and systems described by partial differential equations. This enables a wide range of applicability of the developed model class.

Dienstag, 2. Juli 2024, 15:00 Uhr, C 117

(Kaffee & Kekse, 14:30 Uhr, C 325)

Alle Interessierten sind herzlich eingeladen!

Ilmenau, 19.06.2024

Das Institut für Mathematik