

Kolloquium



ALGORITHMIC OPTIMIZATION

Im Rahmen des Kolloquiums des
Graduiertenkollegs Algorithmic Optimization
findet am

Montag, dem 23. Oktober 2017

16:00 Uhr c.t.

Hörsaal 9

folgender Vortrag statt:

Optimal Control, Stabilization and Parameter Identification for evolution models

Prof. Mapundi K. Banda

University of Pretoria, South Africa

Evolution models governed by the time-dependent partial differential equations will be considered. In this talk, we will present some ideas on optimal control, boundary stabilization and parameter identification for a selection of such models. For instance, boundary information will be used to stabilize or to identify parameters of the models. The first part of the presentation will discuss numerical optimal control and stabilization of hyperbolic conservation laws. The second part will discuss how boundary measurements can be used to simultaneously identify a coefficient and an initial condition of a parabolic partial differential equation using an identification algorithm. Numerical algorithms will be discussed and the effectiveness of the proposed algorithms will also be demonstrated.

Gastgeber:

Prof. Dr. Volker Schulz

Kolloquiums Kaffee ab 15:45 Uhr im Raum E 10