Thesis Topic

Iterative Learning Control

Description:
In this thesis project, we would like to integrate an iterative learning algorithm to a realtime MPC scheme. The focus lies on the development and implementation for autonomous driving at the real car. The iterative learning algorithm is used to learn model uncertainties on a racetrack.

This project will be carried out in cooperation with the Porsche Engineering GmbH (PES) in Mönsheim. If you are interested, please contact me at fabian.pfitz@porsche-engineering.de

Prerequisites:
- Courses (ideally) Konzepte der Regelungstechnik and Optimal Control
- Experience in MATLAB and SIMULINK

Supervisor:
Fabian Pfitz
Room 2.234

Area:
MPC, Iterative Learning

Properties:
Type: MA

Beginning:
In principle at any time. Please approach me via e-mail in case of interest in the topic.

Weitere Informationen: http://www.ist.uni-stuttgart.de/lehre/bama/index.html

Aushang vom 24. Januar 2018