

Seminário em Engenharia Matemática

Data:05/04/2017

Horário:12h00

Sala: H211

Efficient Algorithms for Optimization-based Control

Luís Tiago Paiva

ISEP and SYSTEC-FEUP

We develop efficient algorithms for optimization-based control in order to solve nonlinear optimal control problems with pathwise state constraints via numeric methods. Such algorithms generate time-meshes addressing two main concerns: on the one hand, the number of discretization points of the time-mesh that is a major factor for reducing the computational time and, on the other hand, the location of these points along the time domain that has a major impact in the accuracy of the solutions.