



## Summer School for PhD Students

# Robust Model Predictive Control with CasADi

**15 - 19 September 2025, University of Freiburg**

**Lecturers:** James B. Rawlings, Joel Andersson, Sergio Lucia, Moritz Diehl

**Contents:** This five-day intensive course is designed to teach the fundamentals and state-of-the-art of linear and nonlinear robust model predictive control (MPC). Participants will gain both theoretical and practical expertise in robust MPC design, computational methods, and implementation. The curriculum features in-depth lectures complemented by extensive hands-on computer exercises based on the CasADi and acados software packages.

**Target audience:** For industrial and academic researchers, in particular PhD students in engineering, computer science, mathematics and physics.

**Registration:** The fee of 380 EUR includes coffee breaks, one lunch, a welcome reception and a dinner with all participants.

**Location:** The course takes place in Kollegiengebäude I, one of the main university buildings in the historical city center of Freiburg.

**More information and registration at**

<https://www.syscop.de/event/rmpc25>

**universität freiburg**

