



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>

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