MPCRL 25

4th edition

5-day Fall School for PhD and Master Students on:

Model Predictive Control and Reinforcement Learning

6 - 10 October 2025, University of Freiburg, Germany

Lecturers: Joschka Boedecker, Moritz Diehl, Sebastien Gros

Contents: This comprehensive course covers a range of topics to equip you with the knowledge and skills needed in the field of advanced optimal control and learning. Topics covered include prerequisites on optimization and learning, function approximation, actor-critic methods and techniques for combining MPC and RL. Lectures will be supported with intensive exercise/programming sessions. Participants are encouraged to carry out a project to apply the new concepts in their own field of expertise.

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

Registration: Before August 31st, 2025, until the limit of 60 participants is reached. The registration fee of 400 Euro includes coffee breaks, a welcome reception and a dinner with all participants.

Location: The course takes place in the main university building in the historical city center of Freiburg.

More information and registration at

https://www.syscop.de/teaching/ws2025/model-predictive-control-and-reinforcement-learning

universität freiburg