

MPCRL 23

3rd edition



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

Model Predictive Control and Reinforcement Learning

4 - 13 October 2023, University of Freiburg

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, transformers for control, policy gradient methods and techniques for combining MPC and RL. Lectures will be supported with intensive exercise/programming sessions.

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

Registration: Before August 31, 2023, 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 and the faculty of engineering Freiburg.

More information and registration at

<https://www.syscop.de/teaching/ws2023/model-predictive-control-and-reinforcement-learning>



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