

Seminar & Workshop: Robot Motion Planning

Summary

- ✓ Course dates: September 7 – 8, 2023
- ✓ Course duration: 2 days
- ✓ Language: English
- ✓ Location: Online
- ✓ Certificate: Certificate of Participation
- ✓ Format: Online
- ✓ Lecturer: Dr. Andreas Orthey
- ✓ Price: 1235 €

Course overview

This course deals with the motion planning of robots and the corresponding algorithms. Participants will gain an overview of how to move arbitrary robots from A to B. This includes topics on the exact problem formulation, the selection of efficient algorithms and the optimization of robot motions. Finally, participants get an introduction to the implementation and solution of a planning problem with the corresponding software libraries.

Course content

- ✓ Basics of motion planning and formulation of problems
- ✓ Definition of sample-based planning algorithms with a view to differences and guarantees
- ✓ Introduction to the OMPL software library
- ✓ Application of planners to dynamic problems
- ✓ Application of planners to complex tasks in multi-robot applications
- ✓ Programming planning scenarios in Python

This course will be delivered in the form of short lectures and interactive assignments.

Dates

September 7 to 8, 2023 (virtual classroom sessions).

Booking and contact

Register here: <https://www.academy-tu.berlin/en/courses/short-courses>

Should you have any questions, please contact the TU Berlin Academy Team at: +49 30 4472 0232 or via email: info@academy-tu.berlin. We hope to see you In Berlin - or online - very soon!