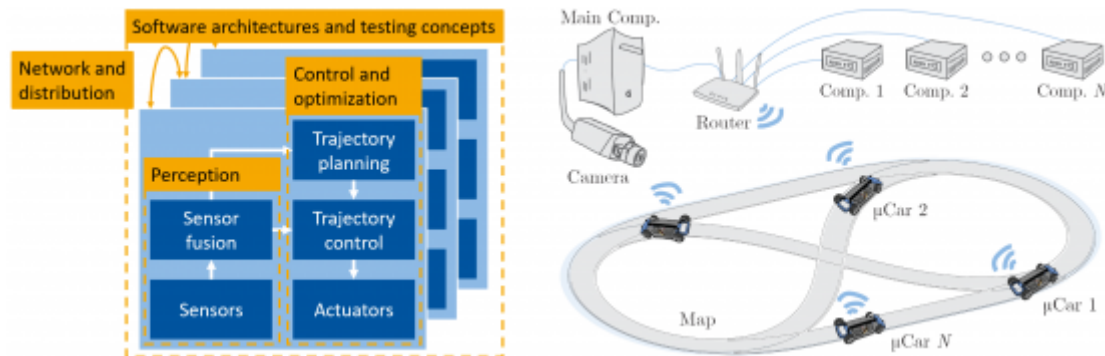# Control and Perception in Networked and Autonomous Vehicles

The event is split in a weekly lecture of 1.5 h and a lab exercise at the Cyper-Physical Mobility Lab on eight mornings during the semester.

After passing successfully, the students are capable to perform the essential steps to develop algorithms for control and perception in networked and autonomous vehicles on their own. Herein, they consider different aspects of the development on their own and are able to evaluate how practicable the available approaches, methods and algorithms are. Furthermore, they are able to synthesize different algorithms for control and perception. A practical application of the learned material in the Cyper-Physical Mobility Lab gives insight in typical challenges.

The lecture is given in English.

The CPM Lab website presents further information.

Recommended Qualifications

Basic knowledge in the following areas:

- Control engineering
- Optimization
- Perception
- Embedded systems
- Rapid control prototyping

Dates

- Lecture Thursday, 10:30 - 12:00
- Lab depending on group choice in RWTHonline, Monday, Tuesday or Wednesday morning

Registration

The registration deadline is Tuesday, 12 October 2022.
Registration at RWTHonline.

The registration for the lab is mandatory in order to participate in the course.

Tutor

Patrick Scheffe, M.Sc. RWTH Simon Schäfer, M.Sc. RWTH

Lecturer

Dr.-Ing. Bassam Alrifaee

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