CYBER-PHYSICAL SYSTEMS

CHOOSE 2 ELECTIVE MODULES FROM THE TRACK CYBER-PHYSICAL SYSTEMS:

Embedded Control:

- Design of Real-Time Embedded Systems
- Nonlinear Systems Analysis and Control
- Sensors and Actuators
- Overview of State-Of-The-Art Control Strategies
- Minor Projects

Advanced Vehicle Dynamics:

- Modeling, Simulation and Testing
- Comfort, Road Holding and Handling
- Passenger Cars, Articulated Vehicles, Motorcycles, Driver Modeling
- Minor Project

Watch the video about the module Advanced Vehicle Dynamics

Applied Machine Learning:

- Data Collecting, Exploration and Preprocessing for Machine Learning
- Machine Learning
- System Identification
- State and Parameter Estimation
- Advanced Modeling (Minor Project)

Watch the video about the module Applied Machine Learning (previously called Big Data & Small Data)

Intelligent Automotive Systems:

- Evolving Mobility Needs
- Sensor Technologies & Environmental Perception
- Data Processing Technologies
- Communication Technologies
- Supporting Infrastructure Technologies
- Human Behavior & Engineering Ethics
- Minor Project

Please note: Advanced Vehicle Dynamics and Intelligent Automotive Systems can only be combined within the Automotive Systems track.