ENG-615 Topics in Autonomous Robotics

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Cursus	Sem.	Туре	Language of	English
Robotics, Control and Intelligent Systems		Opt.	teaching	English
			Credits	4
			Session	
			Exam	Project report
			Workload	120h
			Hours	51
			Lecture	27
			Practical	24
			work	
			Number of positions	25

Frequency

Every 2 years

Remark

Next time: Spring 2025

Summary

Students will be introduced to modern approaches in control and design of autonomous robots through lectures and exercises.

Content

Content of 2023: Tuesday March 28, 2023, 9:00 to 12:00. Reconfigurable robotics. Jamie Paik Wednesday April 5, 2023, 9:00 to 12:00. Micro and Nanorobotics. Selman Sakar Tuesday April 18, 2023, 13:30 to 16:30. Visual perception for robotics. Amir Zamir Tuesday April 25, 2023, 13:30 to 17:30. Soft electrically-driven actuators for robotics and haptics. Herb Shea Tuesday May 2, 13:30 to 17:30. Deep learning for Autonomous Vehicles. Alexandre Alahi Monday May 8, 2023, 9:00 to 13:00. Robotics for Rehabilitation and Assistance.## Mohamed Bouri Wednesday May 17, 2023, 9:00 to 12:00. Design and Control of Prosthetic Devices. Silvestro Micera Tuesday May 23, 9:00 to 12:00. Locomotion control in swimming and legged biorobots. Auke Ijspeert

Keywords

Evolutionary Mobile Robotics Modular Locomotion, Human-robot, Interaction, Mobile Robot Design

Resources

Moodle Link

• https://go.epfl.ch/ENG-615

