ENG-615 Topics in Autonomous Robotics

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Cursus	Sem.	Туре	Lan	guage of	English
Robotics, Control and Intelligent Systems		Obl.		ching	English
			Cre	dits	4
			Ses	sion	
			Exa	Im	Project report
			Wo	rkload	120h
			Но	urs	56
				Courses	28
				TP	28
				nber of sitions	20

Frequency

Every 2 years

Remark

Next time: Spring 2019

Summary

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

Content

- Robotics for Rehabilitation and Assistance (Dr Mohamed Bouri)
- Locomotion Control (Prof. Auke Ijspeert)
- Mobile Robot Design (Prof. Francesco Mondada)
- Design and Control of Prosthetic Devices (Prof. Silvestro Micera)
- Small Scale Robotics (Prof. Selman Sakar)

Note

The course is organized into slots, one per day on a specific topic. Each slot is composed of 6 hours of lectures followed by practical and theoretical exercises that students will do at home. Each slot may change each year. We may also have additional slots/topics given by guest lecturers, who are renown researchers in the taught topic. Students will be assessed on the reports of their exercises.

Keywords

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

Resources

Moodle Link

http://moodle.epfl.ch/course/view.php?id=252