COURSE DETAIL

INTRODUCTION TO MOBILE ROBOTICS
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) Intern: Scotland,University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 145
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO MOBILE ROBOTICS
UCEAP Transcript Title INTRO MOB ROBOTICS
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

A mobile robot is a machine controlled by software that uses sensors and other technology to identify its surroundings and move around its environment. This course provides a general understanding of mobile robotics and related concepts, covering topics such as sensing, computer vision (i.e., visual perception), state estimation (e.g., localization and mapping), and motion planning. The emphasis is on algorithms, probabilistic reasoning, optimization, inference mechanisms, and behavior strategies, as opposed to electromechanical systems design. Practically useful tools and simulators for developing real robotic systems are also covered in this course.

Language(s) of Instruction
English

Host Institution Course Number
INFR10085

Host Institution Course Title
INTRODUCTION TO MOBILE ROBOTICS

Host Institution Campus
University of Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department
School of Informatics

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