

Traxster I



Traxster II



ECE 497

Introduction To Mobile Robotics

Description:

This course will introduce the basic principles of mobile robotics history, theory, hardware and control. Topics will include robot components, effectors and actuators, locomotion, sensors, feedback control, control architectures, representation, localization and navigation. This is a project-oriented course and the student will have hands-on experience with a real mobile robot. The student will be required to complete several laboratory assignments and a multidisciplinary team design project.

Enrollment limited to 14 students

Prerequisites:

Control Systems (ECE 320 or ME 406),
Programming Proficiency (JAVA, C# preferred) or
Instructor permission

Required Textbook:

Murphy, Robin R., "Introduction to AI Robotics", The MIT Press, Cambridge, Massachusetts, 2001, 466 pp, ISBN 0-262-13383-0

Instructor:

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