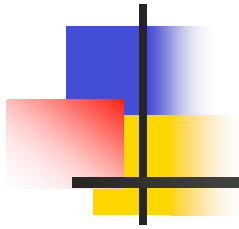


CS 3630: Intelligent Perception and Robotics



Instructors:
Frank Dellaert
TA: Dan Hou



Course Objectives

- Know what it takes to make a robust autonomous mobile robot work:
 - Perceive/Think/Act
- Understand the important approaches, research issues and challenges in autonomous mobile robotics.
- Know how to program an autonomous robot.



Some robots

- How do they
 - Perceive
 - Think
 - Act

How we fit in

Perception and Robotics

CS 3630/3803
Intro Perception and
Robotics (Spring)

CS 4632/4803
Advanced Intelligent
Robotics (Fall)

CS 4495
Computer Vision
(Fall)

Artificial Intelligence

CS 3600
Intro to AI
(Fall & Spring)

or

CS 4641
Machine Learning
(Spring)

CS 4630
Knowledge Based AI
(Spring)

Cognitive Science

CS 3790
Intro to Cognitive
Science (Spring)

CS 479X
Integrty Perspectives
in Cog Sci (alt years)

CS 4752
Phil. Iss. in Comp.
(alt years)



How we will do it

- 6 fun -- but intense -- programming projects
- 4 tests and a final
- Web page
- Your responsibility: email list
- Talk and think in class



Your Responsibility

- borg.cc.gatech.edu/ipr
 - Read and understand class policies
- Email list: irp@cc.gatech.edu
 - Check your mail several times a week



Evaluation

- 4 Exams 20%
- Final 10%
- 6 Projects 65%
- Class Participation 5%
- Grading
 - 90-100 A
 - 80-89.99 B
 - 70-79.99 C
 - 60-69.99 D
 - Other F