

CSCI-4290/6290: Robot Motion Planning
Lecture 10: September 30, 2005
Potential Field Methods

Announcements

Assignment 2 is now due on Monday, October 3 by 11:59:59pm. Please check the Assignment 2 page for updates and announcements.

Today's Class

Today we look at *potential field techniques*. These methods were originally developed as real-time planning methods.

1. Potential fields: potential functions and force fields
2. Path planning: best-first planner
3. Navigation functions

Reading

Chapter 4, Choset et al.
Chapter 8.2, LaValle.

Next Class

Randomized potential field methods.