

CSCI-4965/6963: Robot Motion Planning
Lecture 9: September 27, 2001
Potential Field Methods

Announcements

Assignment 2 is due on Monday, October 1 at 11:59pm. Please see the Assignment 2 page (off the course web page) for specifications of your program functionality, output format, and for a simple GUI to display your results.

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 7 through Section 7.4, Latombe.

Next Class

Randomized potential field methods.