

CSCI-4965/6963: Robot Motion Planning
Lecture 8: September 24, 2001
Approximate Cell Decomposition

Announcements

Assignment 2 is due on Monday, October 1 at 11:59pm. If you need a CS account, send me email by the end of the day today.

Today's Class

Today we look at approximate cell decomposition methods for motion planning. In particular, we consider the quadtree and octree representations of c-space to plan the motions of a robot.

1. Approximate cell decomposition
2. Octree and quadtree representations
3. Cell labeling
4. Orientation slicing

Reading

Chapter 6-6.2, 6.5.1, Latombe.

Next Class

Potential field methods.