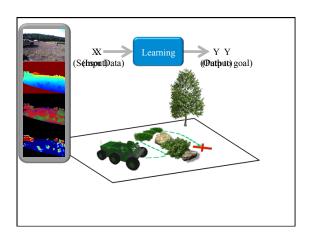
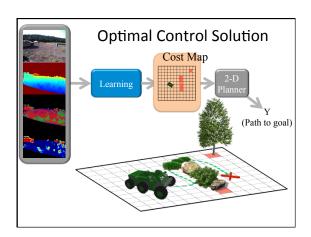
CS 473: Intro to Artificial Intelligence Dieter Fox

Inverse Optimal Control (Inverse Reinforcement Learning)

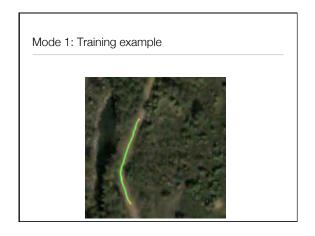
Most slides by Drew Bagnell / Brian Ziebart Carnegie Mellon University

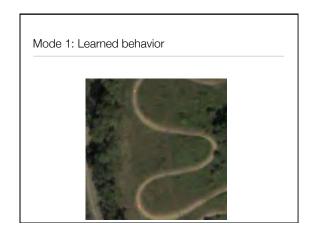


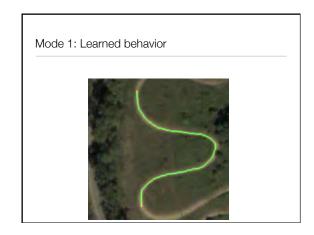


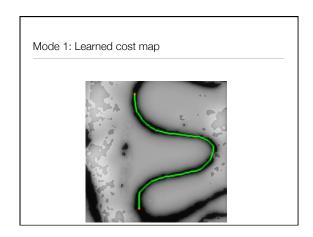






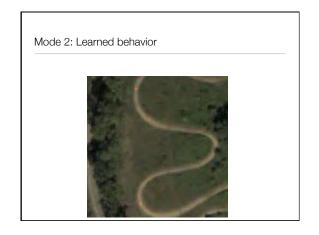


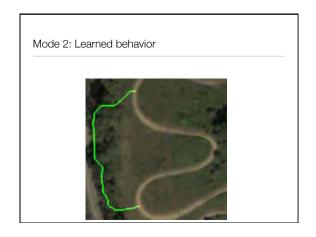


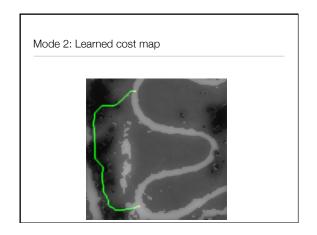


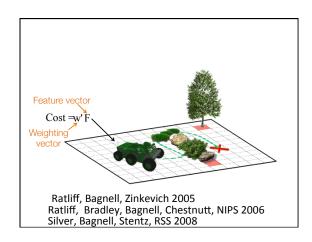


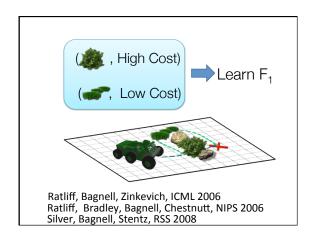


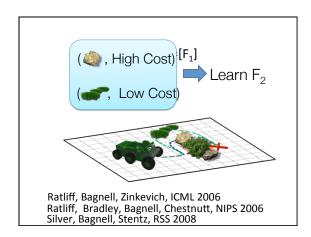






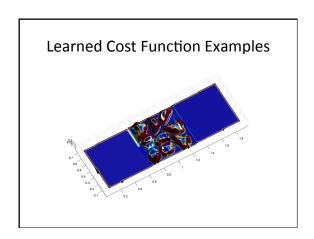


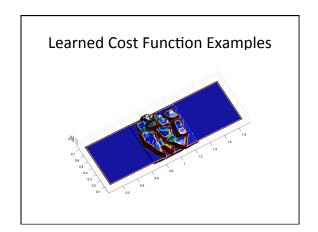


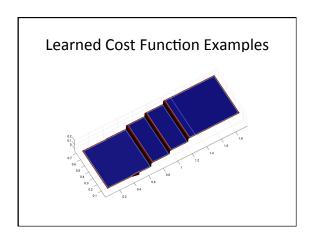




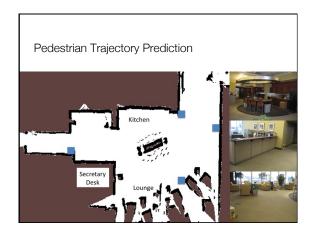


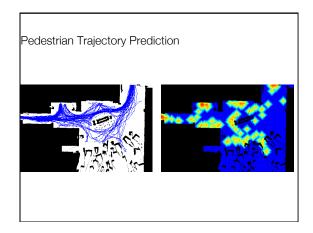


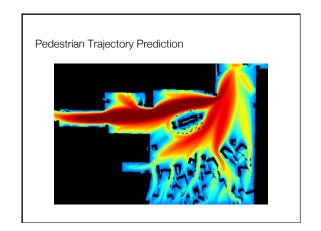


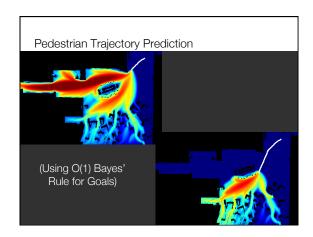


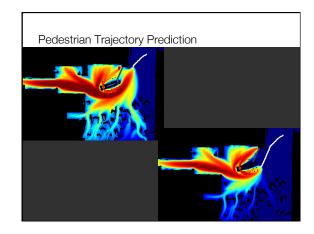


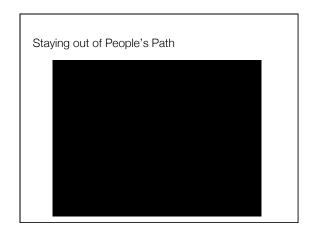


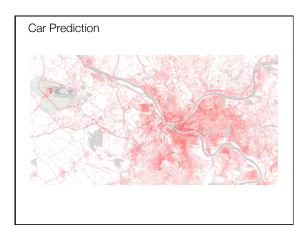












Personal Navigation System



Learning to Navigate Through Crowded Environments (Henry et al)

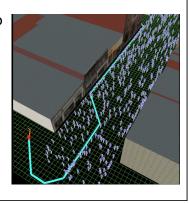




Motivation

- Robots should move naturally and predictably within crowded environments
 - Move amongst people in a socially transparent way
 - More efficient and safer motion
- Humans trade off various factors
 - To move with the flow
 - •To avoid high density areas
 - •To walk on the left/right side
 - •To reach the goal

Mall Scenario



Lane Formation

