Reinforcement Learning

Nov 22, 2023

All notes are based on the course at UIUC CS 443 taught by professor Nan Jiang ( ). Also I use material from Garrett Thomas.

Markov Decision Process

Nov 22, 2023 In this section, we will discuss how to formulate reinforcement learning problems using Markov decision processes (MDPs) and describe various components of MDPs in detail.

Value Function

Nov 22, 2023 In this section we will discuss how to pick the best action for the robot at each state to maximize the return of the trajectory. We will describe an algorithm called Value Iteration and implement it for a simulated robot that travels over a frozen lake.

Bellman Equation

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