Proximal Policy Optimization with Dynamic Clipping

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Introduction

Reinforcement Learning

- A general algorithmic technique that seeks to replicate behavioral learning.
- Basic vocabulary:
 - Environment: a general setting with changeable parameters in which actions can be performed that affect these parameters
 - State: a specific configuration (i.e. "snapshot") of an environment
 - Agent: an entity that learns to accomplish a task in a specific evironment
 - Action: a decision made by the agent that is intended to affect subsequent states
 - **Episode**: a sequence of states and actions in an environment
 - Reward: a number associated with a state-action pair
- Overall goal: train an agent that picks actions such that the sum of the rewards over an episode is maximimized.

Introduction (contd.)

- Example: cart-pole demo

Introduction (contd.)

Trust Region Policy Optimization Proximal Policy Optimization

Potential Shortcomings of PPO



Results

Future Directions