Hindsight Goal Prioritization for Sparse Reward Environments

Final Project

Reinforcement Learning

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First introduction sentence Second introduction sentence



1 Introduction

- **▶** Introduction
- Environment
- Implementation
- Results

- Vanilla off-policy algorithms are not suited for multi-goal reinforcement learning with sparse reward
- Since the goal is not fixed, we may never get reward 1
- Problem with exploration



To start working with sintefbeamer

Intuition

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Drawbacks

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Intuition

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Enhancements over Vanilla HER

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2 Environment

- Introduction
- **▶** Environment
- Implementation
- Results



Why Robotics Environments

2 Environment



Fetch 2 Environment



3 Implementation

- Introduction
- Environment
- **▶** Implementation
- Results



Learning Algorithm 3 Implementation





4 Results

- Introduction
- Environment
- Implementation
- ► Results



Hindsight Goal Prioritization for Sparse Reward Environments

Thank you for listening!
Any questions?