COMP8620: MC-AIXI-CTW Group 3

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1 Introduction

1.1 Domains

The domains assigned to group 3 are as follows:

Pacman, Tic-Tac-Toe, Biased Rock-Paper-Scissor, Extended Tiger, Cheesemaze

1.2 Files

The report archive should contian the following:

1.3 User Manual

2 MC-AIXI-CTW Implementation

2.1 Environments

- 2.1.1 Cheesemaze
- 2.1.2 Extended Tiger
- 2.1.3 Biased Rock-Paper-Scissor
- 2.1.4 Tic-Tac-Toe
- 2.1.5 Pacman
- 2.2 Monte Carlo Tree Search (MCTS) Algorithm
- 2.3 Context Tree Weighting (CTW)

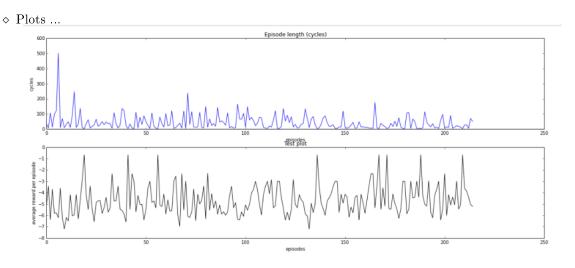
3 Simulation Results

3.1 Cheesemaze

♦ Experimental setup ...

Any simulation provided should include detailed description of experimental setup; selected parameters of algorithms and examples; and concise interpretations of obtained simulation results.

$\operatorname{Environment}$	MCTS	CTW
1	m = ?	ct-depth = ?



 \diamond Interpretation of Results

3.2 Extended Tiger

Experimental setup ...

 ${\rm Plots}\ \dots$

3.3 Biased Rock-Paper-Scissor

Experimental setup \dots Plots \dots

3.4 Tic-Tac-Toe

Experimental setup \dots Plots \dots

3.5 Pacman

Experimental setup \dots Plots \dots

4 Cross Domain Simulation Results

Cheesemaze and Extended Tiger

5 Possible Other things

Cross domain simulation on more difficult environments... Separate CTW for Obs and Rews...