

CSE4/546 Reinforcement Learning

Quiz 11

Due Date: April 28, 11:59pm (Extended)

1 Task [5 points x 6 algorithms]

We will compare various deep reinforcement learning algorithms that we have covered so far in the course. Discuss their main characteristics, objective function and how we update the weights. Also share key features of the algorithm, if any, and its pros and cons. The final format can be in either table or just a structured text.

Describe at least any **six algorithms** we have covered and fill in the following table.

Algorithm	Value Based / Policy Gradient / AC	Objective Function & Parameters Updates	Key Features	Pros	Cons
...

Algorithms include:

- DQN
- Double DQN
- Dueling DQN
- REINFORCE
- A2C
- A3C
- TRPO
- PPO
- SAC

2 Submission

Submit the work in pdf version to UBlearns under Quiz 11. The work can be done in written form or electronically, but has to be converted to pdf as a final version.