

Midterm Milestones Report

Table 1: Current Progress

Date	Milestone	Points	Status
2021-03-10	Basic Coding Framework	5	✓
2021-03-20	Version 1: An RL agent with two different Mlp modules.	5	✓
2021-03-30	Version 2: An RL agent with two different RNN modules.	5	✓
2021-04-10	Version 3: An RL agent with 2 RNN + 2 Mlp, test on Multi-Robot Continuous Control problem.	10	hard, still working

0.1 Main Obstacles

Multilayer Perceptron (MLP) processes one tuple $\langle s_t, a_t, r_t \rangle$ at a time, however, RNN usually needs to process a sequence of experience.

I have implemented both training program for MLPs and RNNs, but still working on integrating those two types of modules.

For more detail, please visit: https://github.com/liusida/experimental_rl