Agile Trajectory Generation for Tensile Perching with Aerial Robots

Progress Update

Main focus is around Interim Report

- Introduction 1st draft stage
- Background Approx 70% Complete
 - Perching Tecniques TODO
 - Existing Work Done
 - Reinforcement Learning 2nd draft stage
 - Inverse Reinforcement Learning 1st draft stage
 - Reinforcement Learning from Demonstration half 1st draft, half in note form
- Project Plan in note form
- Evaluation Plan TODO

Project Aim

- Design and Implement a Framework for Learning Agile Perching Trajectories from Non-Expert Demonstrations.
 - Using a small number of demonstrations to perform the required task.
 - Following demonstrations the agent should improve energy efficiency while still completing the perching task.
 - Not following a target trajectory instead the agent will need to understand the goal of the task (IRL).

Plans Until Next

• Largely be focussed on the Interim Deadline for the next 2 weeks

Questions

- Experimental Ability How does this get organised?
- When will we find out 2nd markers?