Milestone Report

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***Abstract*—We aim to minimize the flight time of a VTOL drone through a sequence of waypoints. We are planning to utilize deep reinforcement learning methods to train a robust neural network controller.**

***Index Terms*—reinforcement learning, VTOL drone, neural network controller**

I. Methods

[1]

II. Experiments

III. Results

IV. Future Work

References

[1] R. Penicka, Y. Song, E. Kaufmann, and D. Scaramuzza, "Learning minimum-time flight in cluttered environments," *IEEE Robotics and Automation Letters*, vol. 7, no. 3, pp. 7209–7216, jul 2022. [Online]. Available: https://doi.org/10.1109%2Flra.2022.3181755