## Efficient Learning-based Trajectory Tacker for Quadrotor at High-speed Flight

Peng Peng, Gang Chen and Wei Dong School of Mechanical Engineering, Shanghai Jiaotong University, China Yi Ni

Shanghai Electro-Mechanical Engineering Institute, China

- This paper aims to improve the accuracy of the trajectory tracking of the quadrotor
- Combining traditional PID controller with the idea of neural network modeling based MPC.
- The tracking performance is obviously improved both in simulation and experiment.



Home-made quadrotor for tracking experiment