

Runze Ding

PHD CANDIDATE · YEAR 4

City University of Hong Kong

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Education

City University of Hong Kong

Hong Kong SAR

PHD CANDIDATE

2019.9 - present

- Advisor: Dr. Pakpong CHIRARATTANANON
- Major: Dynamics and Control, Aerial Robotics, Aerodynamics-based Autonomy.

Nanjing University of Aeronautics and Astronautics

China

MPHIL

2016.9 - 2019.6

- Advisor: Dr. Lingfei Xiao
- Major: System and Control, Aero-Engine, Propulsion System.

Nanjing University of Aeronautics and Astronautics

China

BS

2011.9 - 2015.9

- Major: Aerial Propulsion System

Research Interest

Dynamics and control of aerial robotics; Aerodynamics-based navigation, and reactive flight of rotor-crafts. Please refer to my website (runzeding.github.io) for research details.

Recent Publications

- [1] **Ding, R.**, Bai, S., Dong, K., Chirarattananon, P. (2023). Aerodynamic Effect for Collision-Free Reactive Navigation of a Small Quadcopter, npj Robotics, under review.
- [2] **Ding, R.**, Jia, H., Chirarattananon, P. (2023). Quadrolltor: A Reconfigurable Quadrotor with Controlled Rolling, IEEE/ASME Transactions on Mechatronics, under review.
- [3] **Ding, R.**, Hsiao, Y. H., Jia, H., Bai, S., Chirarattananon, P. (2022). Passive wall tracking for a rotorcraft with tilted and ducted propellers using proximity effects. IEEE Robotics and Automation Letters, 7(2), 1581-1588.
- [4] Jia, H., Bai, S., **Ding, R.**, Shu, J., Deng, Y., Khoo, B. L., Chirarattananon, P. (2022). A quadrotor with a passively reconfigurable airframe for hybrid terrestrial locomotion. IEEE/ASME Transactions on Mechatronics, 27(6), 4741-4751.
- [5] Bai, S., **Ding, R.**, Chirarattananon, P. (2022). A micro aircraft with passive variable-sweep wings. IEEE Robotics and Automation Letters, 7(2), 4016-4023.

Professional Experience Peer Review

- 2022-2023 **Reviewer**, Robotics and Automation Letters, IEEE
2019-2023 **Teaching Assistant**, City University of Hong Kong
2015-2016 **College Graduate Volunteers for Western Region Services Program**, Tibet, China

Awards, Fellowships, & Grants

- 2018 **National Scholarship**, China