

Chuchu Chen

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Education

- 2020-Present **PhD Mechanical Engineering**, *University of Delaware, Newark, DE.*
Advisor: Dr. Guoquan(Paul) Huang, Dr. Bert Tanner
- 2021-Present **MS Computer & Information Science**, *University of Delaware, Newark, DE.*
Advisor: Dr. Guoquan(Paul) Huang
- 2017 **MS Mechanical Engineering**, *University of Delaware, Newark, DE.*
Advisor: Dr. Bert Tanner
- 2013 **BS Mechanical Engineering**, *Harbin Engineering University, Harbin, China .*

Professional Experience

- 2020-Present **Research Assistant** *University of Delaware*
[1] Multi sensor (including IMU, Lidar and camera) spatial and temporal online calibration
[2] Map based robot localization including Lidar, odometry, IMU and cameras
[3] Filter and graph based MAV parameter identification
[4] Preintegration methods for visual inertial navigation
[5] Navigation function for point robot in dynamic environment
- 2019-2020 **Teaching Assistant** *University of Delaware*
2019Fall MEEG 311-010: Vibration and Control
2020Spring MEEG 677: Estimation I

Publications

Journal Papers

- [J1] C. Wei*, **C. Chen***, H. G. Bert " Navigation Functions with non-Point Destinations and Moving Obstacles", IEEE Transactions on Robotics (TRO),2022.(submitted)

Conference Papers

- [C3] P. Geneva*, N. Merrill*, Y. Yang, **C. Chen**, W. Lee, and G. Huang" Versatile 3D Multi-Sensor Fusion for Lightweight 2D Localization", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS),2020.
- [C2] **C. Chen**, L. Li and H. G. Bert " Navigation Functions with non-Point Destinations and Moving Obstacles", American Control Conference (ACC), 2020.
- [C1] Y. Yang, B. P. W. Babu, **C. Chen**, G. Huang, and L. Ren" Analytic Combined IMU Integratorfor Visual-Inertial Navigation", International Conference on Robotics and Automation (ICRA), 2020.

Technical Report

- [T1] Y. Yang, **C. Chen**, and G. Huang " Supplementary Materials: Analytic Combined IMU Integration (ACI2)"

Academic Service

Conference Review

ICRA (IEEE International Conference on Robotics and Automation)

IROS (IEEE/RSJ International Conference on Intelligent Robots and Systems)

MED (Mediterranean Conference on Control and Automation)

RA-L (IEEE Robotics and Automation Letters)

Professional Membership

IEEE

IEEE Robotics and Automation Society

IEEE Control Systems Society