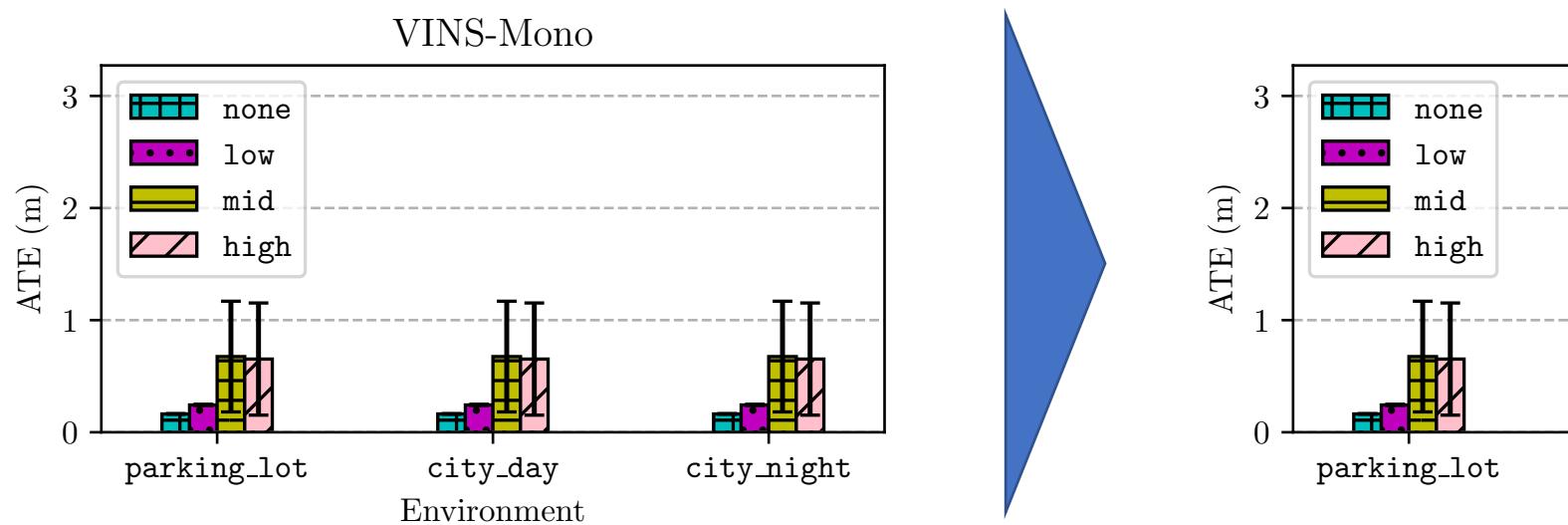


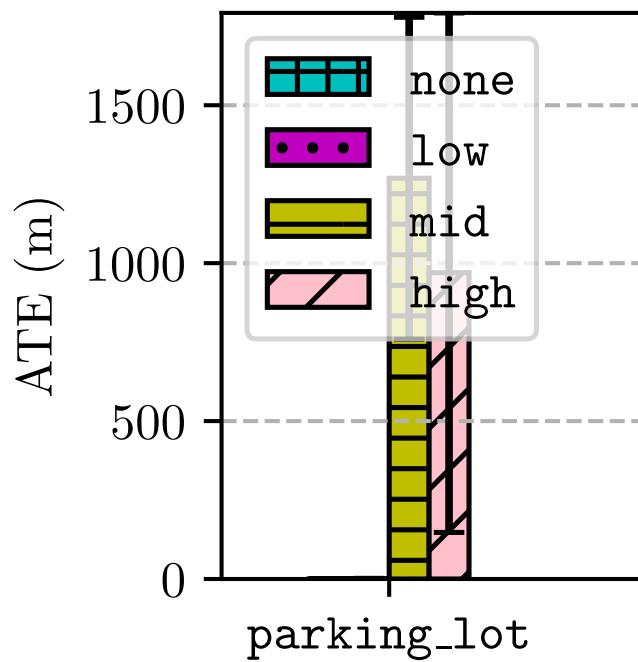
Setups – Additional experiments for VIODE

- Using **parking_lot** dataset in the VIODE dataset
- Using **VINS-Mono**
- Change some parameters of VINS-Mono and see the effects
 - Default parameters: The one used in the RA-L paper experiment.
 - Parameters we changed: IMU noise & max_cnt (=max feature number in feature tracking)



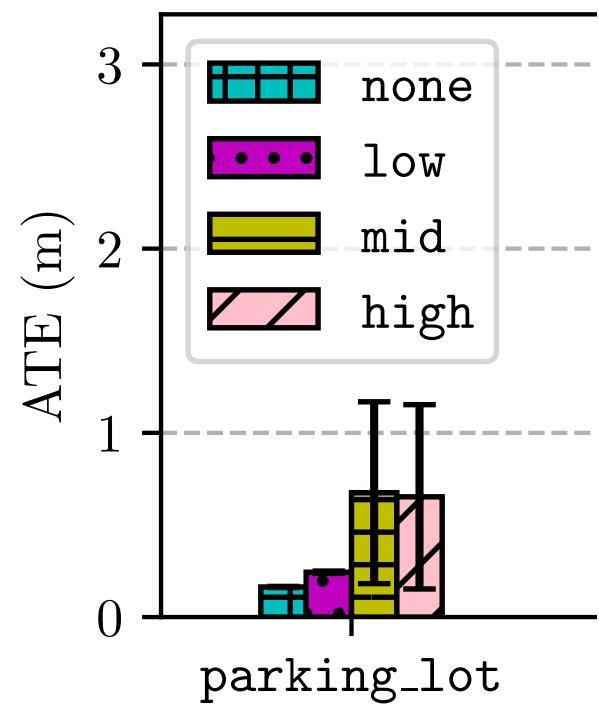
A. IMU 1 (IMU noise value from AirSim)

<https://github.com/microsoft/AirSim/blob/master/AirLib/include/sensors/imu/ImuSimpleParams.hpp>



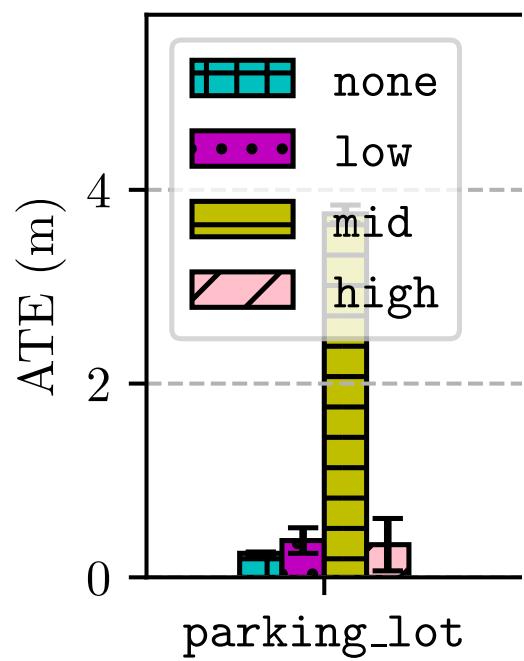
Parameter	Value (Changed if bold, else default)
Max_cnt	120
Acc_n	0.03328
Gyr_n	0.001234
Acc_w	8.8259e-7
Gyr_w	7.0523e-8

B. IMU 2



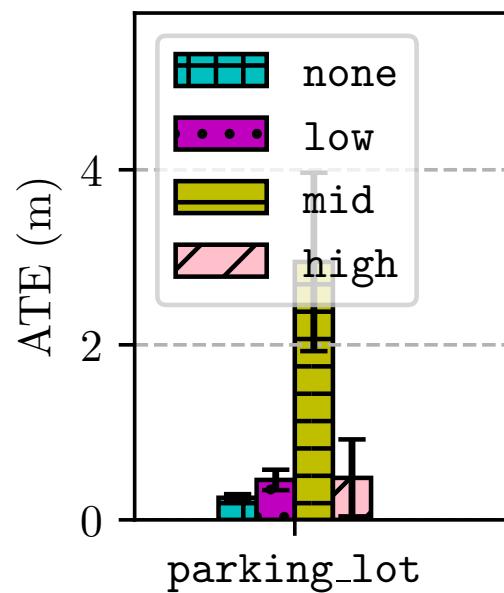
Parameter	Value (Changed if bold, else default)
Max_cnt	120
Acc_n	0.1
Gyr_n	0.01
Acc_w	0.01
Gyr_w	0.001

C. IMU 3



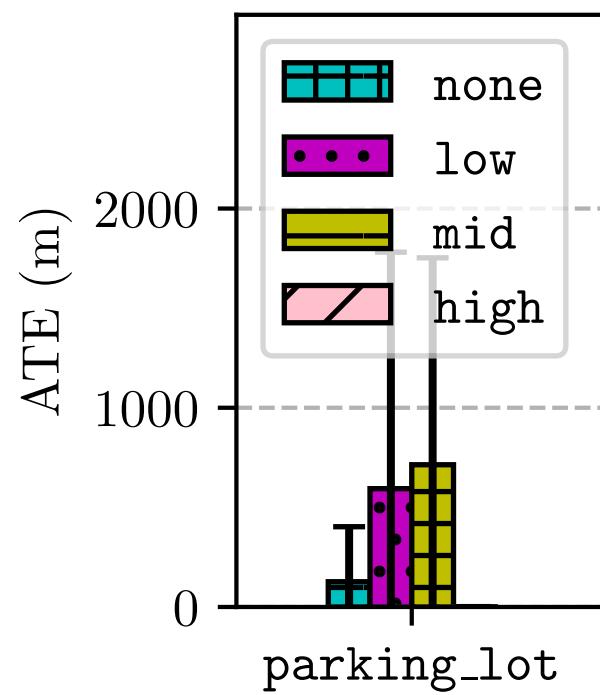
Parameter	Value (Changed if bold, else default)
Max_cnt	120
Acc_n	0.1
Gyr_n	0.01
Acc_w	0.001
Gyr_w	0.0001

D. Max count



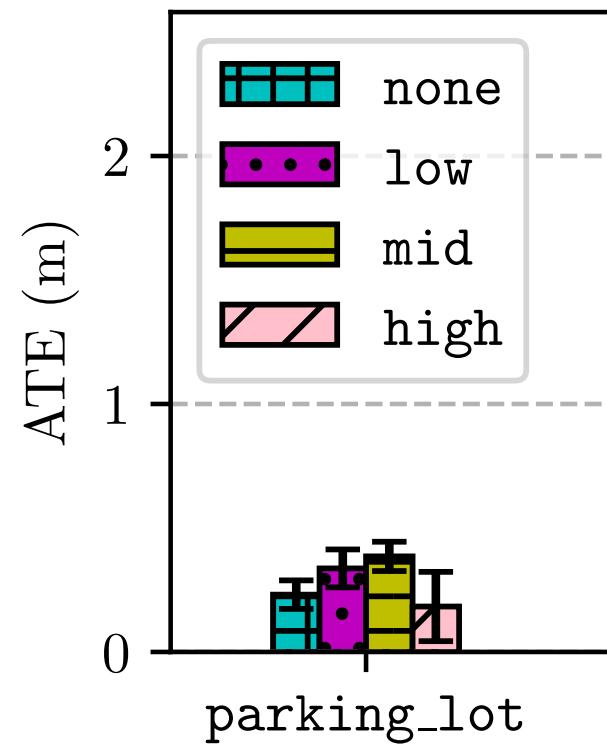
Parameter	Value (Changed if bold, else default)
Max_cnt	150
Acc_n	0.2
Gyr_n	0.05
Acc_w	0.02
Gyr_w	4.0e-5

E. IMU 1 (value from AirSim) + maxcount



Parameter	Value (Changed if bold, else default)
Max_cnt	150
Acc_n	0.03328
Gyr_n	0.001234
Acc_w	8.8259e-7
Gyr_w	7.0523e-8

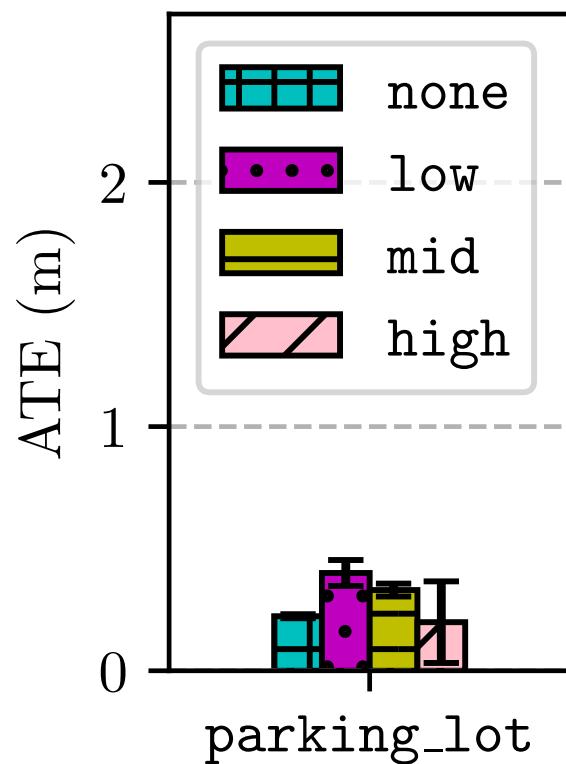
F. IMU 2 + maxcount



Parameter	Value (Changed if bold, else default)
Max_cnt	150
Acc_n	0.1
Gyr_n	0.01
Acc_w	0.01
Gyr_w	0.001

G. IMU 3 + maxcount

This is the case which was first reported on the GitHub issue.



Parameter	Value (Changed if bold, else default)
Max_cnt	150
Acc_n	0.1
Gyr_n	0.01
Acc_w	0.001
Gyr_w	0.0001