

Universidade de Aveiro

Mestrado em Robótica e Sistemas Inteligentes Robótica Móvel

Lesson 8: EKF SLAM

Academic year 2023/2024

Nuno Lau/Vitor Santos

In this assignment, you will use the base code provided in **8_rm_mapping.tgz** to complete the implementation of an Extended Kalman Filter SLAM implementation.

- 1. Read the code of ekf_slam_landmark.py and pyarena/slam/kf_slam_landmark.py, understand the objective of each method.
- 2. Check pyarena/sensors/landmark_sensor.py and determine which kind of measures are provided by the LandmarkSensor.
- 3. Formulate the problem using an Extended Kalman Filter SLAM approach and complete the implementation of the run() method in pyarena/slam/kf_slam_landmark.py.

References