Theory

Software for visualisation of sensor (raw laser range data and odometry)[[1]](#footnote-1)

A. I. Eliazar and R. Parr, "DP-SLAM 2.0," IEEE International Conference on Robotics and Automation, 2004. Proceedings. ICRA '04. 2004, 2004, pp. 1314-1320 Vol.2, doi: 10.1109/ROBOT.2004.1308006.

Odometry[[2]](#footnote-2)- Odometry is the use of data from motion sensors to estimate the change in position of a vehicle over time, relative to a specific starting location.

Lidar- a detection system which works on the principle of radar but uses light from a laser.

INS (inertial navigation system) - An inertial navigation system (INS) is a navigation device that uses a computer, motion sensors (accelerometers) and rotation sensors (gyroscopes) to continuously calculate by dead reckoning the position, the orientation, and the velocity (direction and speed of movement) of a moving object without the need for external references[[3]](#footnote-3)

1. <https://openslam-org.github.io/> [↑](#footnote-ref-1)
2. <https://rdcu.be/cFaFj> [↑](#footnote-ref-2)
3. <https://en.wikipedia.org/wiki/Inertial_navigation_system> [↑](#footnote-ref-3)