



# AUTONOMOUS NAVIGATION

## INTRODUCTION

Robotic applications demand the robot to be mobile to move from one location to the other to perform its intended task. Sensory data is computed to determine its optimal path while avoiding obstacles.

## CHALLENGES

- + Localization
- + Obstacle Avoidance
- + Sensor fusion
- + Sensor filtering

## POTENTIAL APPLICATIONS

- + Service: Mobile robots that are able to follow human or guide humans
- + Healthcare: Patient aid mobile robots
- + Security: Indoor and Outdoor patrol robots