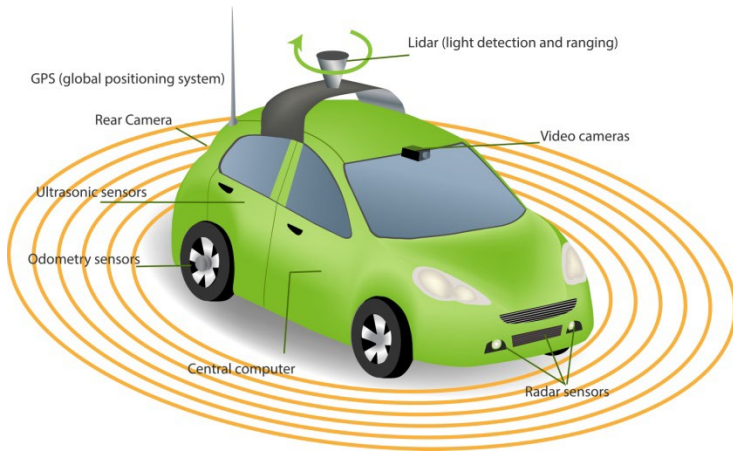


Problem:

- 3D surrounding is essential in robotics, autonomous vehicles, AR/VR



- Multiple sensors :LIDAR, RADAR, camera
- **Cost** of sensors

Current Studies:

- Deep Learning based depth estimation uses only a camera
- Monocular cameras-Dynamic
- Multi-view cameras -Static
- No need for LIDAR depth values
- Effective methods are limited within a dataset

Seq=07, KF=395

Keyframe



Our Study:

- Combining strengths of previous studies
- State of the art results
- Large scale reconstruction
- Effective in other datasets: KITTI, Oxford Robot-Car
- Camera as lead sensor

Depth Map

MonoRec

