

Camera depth estimation

In camera based object detection it is essential to estimate the distance of objects detected in the camera images.

There are a lot of approaches, by now there are already neural network based approaches.

However, this task is about calculating the depth in order to save computational resources.

TASKS

- Implementation of an depth estimation algorithm that works on stereo cameras.
- Comparison/Benchmark of integrated but computationally expensive approaches

REQUIREMENTS

Required:

- C++ and Python Knowledge

Useful:

- ROS

WE OFFER

- References and support to get started
- Workshops and seminars
- Simulation environment and hardware