Project README

This project is developed and tested on Ubuntu 18.04 with Python 3.6.

Running Instructions

Creating conda environment

To create a Python 3.6 conda environment, please run the following command:

```
conda create --name myenv python=3.6
```

To activate the conda environment, run:

```
conda activate myenv
```

Then, install all necessary libraries by running:

```
pip install -r requirements.txt
```

Running the Camera and Lidar Detectors

To run the camera and lidar detectors, navigate to the 'src' directory by running:

```
cd ./src
```

Then, run the main script by executing the following command:

```
python main.py
```

This will display the output of the camera and lidar detectors.

Running the Sensor Fusion

To run the sensor fusion, navigate to the 'fusion_result' directory by running:

```
cd ./sensor_fusion/fusion_result
```

Then, run the script by executing the following command:

```
python fusion_result.py
```

This will display the output of the sensor fusion.

Result Explanation

Due to the lack of timestamps in the dataset, we cannot align the processing frequency of the camera and lidar, which means that we cannot achieve real-time sensor fusion. Additionally, different CPUs may yield slightly different results. Therefore, we have included a standard processing result video based on the 8th generation Core i7 processor in the `demo` folder for your reference.