

Lidar 深度学习检测模块使用说明

Dependence

- Ubuntu 16.04
- ROS kinetic
- CUDA 9.0
- Caffe

Caffe Config

clone the caffe project in your home folder. like this:

```
cd
git clone https://github.com/BVLC/caffe.git
```

before install , install the dependencies:

```
sudo apt-get install libprotobuf-dev libleveldb-dev libsnappy-dev
libopencv-dev libhdf5-serial-dev protobuf-compiler
sudo apt-get install --no-install-recommends libboost-all-dev

sudo apt-get install libopenblas-dev

sudo apt-get install libgflags-dev libgoogle-glog-dev liblmdb-dev
```

Then copy our Makefile.config to the caffe folder (replace the older one)

make & make distribute

```
sudo make -j8
sudo make distribute
```

if the there is error with opencv, try uncomment this line in Makefile.config:

```
# OPENCV_VERSION := 3
```

Build the project

install the catkin build tool:

```
sudo apt-get install python-catkin-tools
```

build this project:

```
catkin build
```

Run this project

```
source devel/setup.bash  
./run_cnn_seg.sh
```