## **Requirements**

* Python 3.6.0+
* Keras 2.1.5+
* TensorFlow 1.6.0+
* Opencv3.4+扩展包

**Pedestrian detection：**

yolo.py -- 主程序

Yolo\_video.py -- 执行程序

### **1. Preparation**

数据集下载地址：<http://host.robots.ox.ac.uk/pascal/VOC/>

# 按论文需求修改配置文件yolo.cfg、voc\_annotation.py、voc\_class.txt

### **Training**

Modify train.py and start training

Run train.py. --- python3 train.py

### **Replacement weight**

将训练好的权重放在model\_data路径下

### **Testing**

Run yolo\_video.py

python yolo\_video.py --input test.mp4 --output test1.mp4

**Pedestrian prediction**

### **1. Preparation**

Set dataset attribute of the config files in configs/.

### **2. Training**

Run train\_social\_model.py.

Python train\_social\_model.py --config path/to/comfig.json [--out\_root OUT\_ROOT]

### **3. Testing**

Run evaluate\_social\_model.py

Python train\_social\_model.py --trained\_model\_config path/to/config.json --trained\_model\_file path/to/trained\_model.h5

## **Restrictions**

* work only on batch size = 1
* require much RAM (use almost all 16GB in my environment)