Cameroon License Plate Recognition Project

Description of the project

Read the .pdf Report - Cameroon License Plate Recognition.pdf

Installation guide

- 1. Install python 3.7 (if it is not installed):
 - Activate internet connection
 - open the command-line (Ctrl-Alt-T)
 - o enter sudo apt update
 - o enter sudo apt install software-properties-common
 - o enter sudo add-apt-repository ppa:deadsnakes/ppa
 - o enter sudo apt update
 - enter sudo apt install python3.7
 - o close the command-line
- 2. Extract the zip license_plate_recognition.zip
- 3. Open (Enter in) the directory recognition
- 4. Install the dependancies:
 - o pen the command-line (Ctrl-Alt-T)
 - o enter pip3 install -r requirements.txt

Now we need to install detectron2

- enter pip3 install -U torch==1.4+cu100 torchvision==0.5+cu100 -f https://download.pytorch.org/
 g/whl/torch stable.html
- enter pip3 install cython pyyaml==5.1
- enter pip3 install -U
 'git+https://github.com/cocodataset/cocoapi.git#subdirectory=PythonAPI'
- enter pip3 install detectron2 -f https://dl.fbaipublicfiles.com/detectron2/wheels/cu100/index.
 httml
- 5. Run the program:
 - Take a photo or download a photo or choose a photo in the directory test_images (there are some images of cars)
 - enter python predict_plate.py "/path/to/image". This means that if the image car.jpg is in the directory .images, we should write python predict_plate.py "./images/car.jpg"
 - It will output the prediction of the license plate

It is important to note that this is just a prototype. In real life production, the software should be integrated in a camera and should analyse images frame by frame.