***Laborator 5-6***

Am descarcat python, OpenCV si cele 2 biblioteci aditionale : „dlib” si „face\_recognition”.

Am lucrat pe linux mint.

Instalarea bibliotecii dlib:

$ workon # optional

$ pip install dlib

Instalare biblioteca face\_reconignition:

$ workon <your env name here> # optional

$ pip install face\_recognition

Instalare OpenCV si python:

$ wget https://bootstrap.pypa.io/get-pip.py

$ sudo python3 get-pip.py

$ sudo pip install opencv-contrib-python

$ pip install virtualenv virtualenvwrapper

export WORKON\_HOME=$HOME/.virtualenvs

export VIRTUALENVWRAPPER\_PYTHON=/usr/bin/python3

source /usr/local/bin/virtualenvwrapper.sh

$ source ~/.bashrc

$ mkvirtualenv cv -p python3

import cv2

import sys

cascPath = sys.argv[1]

faceCascade = cv2.CascadeClassifier(cascPath)

video\_capture = cv2.VideoCapture(0)

while True:

# Capturam imaginea frame cu frame.

ret, frame = video\_capture.read()

gray = cv2.cvtColor(frame, cv2.COLOR\_BGR2GRAY)

faces = faceCascade.detectMultiScale(

gray,

scaleFactor=1.1,

minNeighbors=5,

minSize=(30, 30),

flags=cv2.cv.CV\_HAAR\_SCALE\_IMAGE

)

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for (x, y, w, h) in faces:

cv2.rectangle(frame, (x, y), (x+w, y+h), (0, 255, 0), 2)

cv2.imshow('Video', frame)

if cv2.waitKey(1) & 0xFF == ord('q'):

break

video\_capture.release()

cv2.destroyAllWindows()