Demo_FusionNet

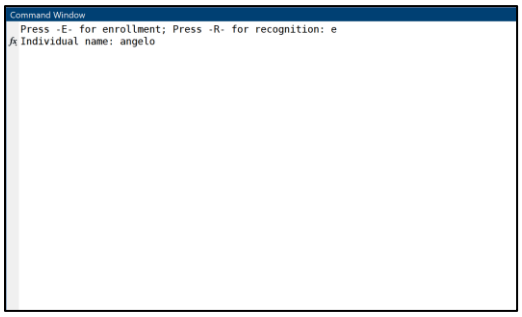
https://github.com/AngeloUNIMI/Demo_FusionNet

Step 1

Execute “launch_Demo_FusionNet.m”

Step 2

Choose “e” for enrollment.
Input the name of the individual (see figure).



Step 3

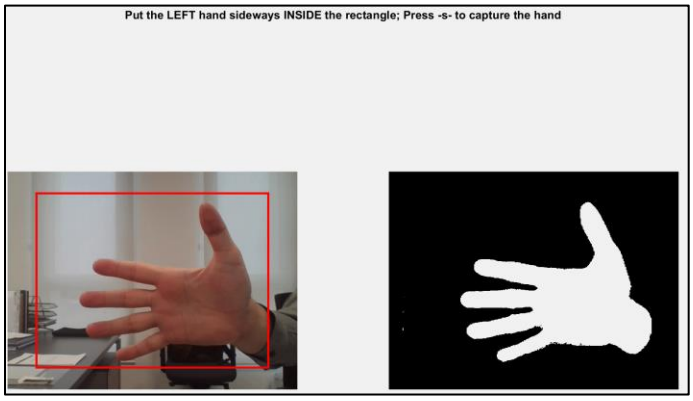
Point the webcam to an area *without body parts and moving objects* (see figure).
Press “s” to capture the background.

Step 4

Capture the hand following these guidelines (see figure):

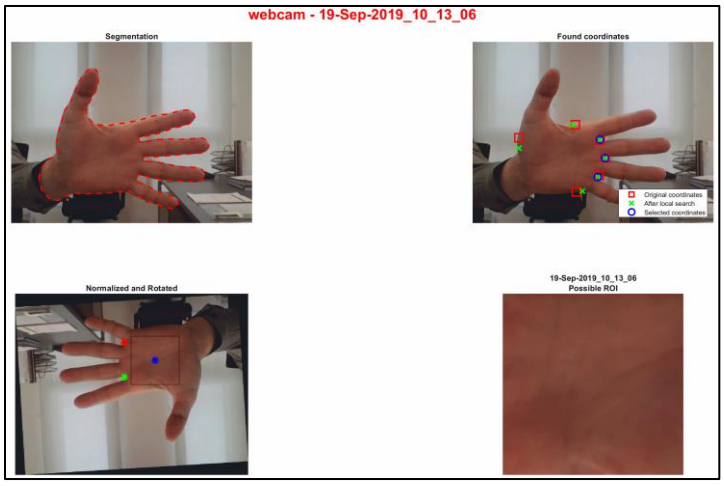
- Place the *left hand sideways.*
- *The hand should be open, thus having every finger separated one to each other.*
- Only the hand should be in the picture (no other body parts or clothes).
- Try to maximize the area of picture covered by the hand.
- The environmental light should be enough to clearly show the ridges of the palm and fingers (avoid light originating from behind the hand).

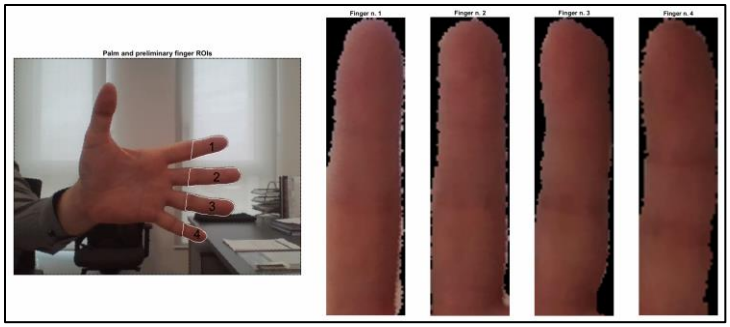
Press “s” to capture the hand.



Step 5

The algorithms segment the palm and the finger, extract the templates, and save them in the directory “./dirDB”. If the fingers are correctly separated, the blue circles appear at the intersections of index, middle, and ring finger (see figures).





Step 6

Repeat the enrollment process until 3 templates are correctly extracted and saved.

Step 7

Execute “launch_Demo_FusionNet”.
Choose “r” for recognition.

Step 8

Repeat **Step 3** and **Step 4** to capture the hand and extract the template.

Step 9

The algorithms perform the recognition by comparing the fresh template with the templates stored in “./dirDB”.