University of Aveiro

DEPARTAMENT OF ELECTRONICS, TELECOMUNICATIONS AND INFORMATICS

Computer Vision (2016/2017)

Lecture 10

- 1. Develop a program to perform traffic sign detection. You can consider the existence of a database with images of several traffic signs (templates) and your program has to find the position of the signs in the input image (or video) if they appear there.
 - As starting point, explore the OpenCv tutorial about template matching. In your implementation, explore the several matching methods available in OpenCV.
- 2. Develop a face detector and a face recognition program. You should consider the existence of a database with images containing the reference faces and your program has to determine the one that is most similar to the one that is under analysis.
 - Explore the OpenCv tutorial about the use of cascade classifiers, as well as the other tutorials regarding face detection and face recognition ¹
- 3. Write a report about the experiences done in this class. It should contain an example of the images displayed in each exercise, as well your comments about them.

¹http://docs.opencv.org/2.4/modules/contrib/doc/facerec/facerec_tutorial.html