Universitat Politècnica de Catalunya Universitat de Barcelona Universitat Rovira i Virgili

MASTER IN ARTIFICIAL INTELLIGENCE

Computational vision

Face recognition

Authors:
Alejandro Suárez Hernández
Johannes Heidecke

November 2016

Contents

1	Gender recognition 1.1 Questions	2 2
\mathbf{A}	Appendices	
A	Annex	3
\mathbf{L}	ist of Figures	

1 Gender recognition

For this exercise we used a gender recognition system based on the AR-Face database. The used code and files are listed in appendix A.

1.1 Questions

Question 1:

- Which is the information contained in ARFace.person?
- Why the size of the field internal, size(ARFace.internal), is 1188×2210 ?

ARFace is a matlab struct. ARFace.person contains 2210 numeric values that *Question 2:*

- What are the variables 'n' and 'index' of the function fold_validation.m? Question 3:
- The function main_gender_recognition.m computes some evaluation measures obtained with 'PCA' (dim = 5), 'PCA95' (95% variance explained) and 'LDA'. Explain the meaning of these measures and discuss which is the best obtained result.

Appendices

A Annex

Some text in the annex.