



INTERNSHIP REPORT PATTERN RECOGNITION UNISA ITALY

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Une grande école pour réussir

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Chapter 1

Introduction

During the second year of engineering school at ENSICAEN we have 3 month internship that I decided to do in the MIVIA Lab of Salerno's university in Italy. They are specialised in image synthesis which is my major course, moreover I am interested in a double diploma in this university which gives me the opportunity to see the place and teachers, learn the Italian and make some contacts.

My internship subject has been split into two. First a study on the Motorola HC1 helmet used for example in military domain. The aim was to see if we could make the helmet compile Linux for helmet. Then develop an application capable of recognising patterns in an image and store the position, the number of patterns found and the type of each pattern. So as to determine the name of a global structure which the patterns are components.

In this report I will present the laboratory and the place of the internship, the study of the hardware for the helmet and the software (OpenCV mainly) for the application. What exists and where my projects are situated in their environments. After that I explain what I tried to solve the problems and what are the results.

Chapter 2

The MIVIA Laboratory



for Macchine Intelligenti per il riconoscimento di Video, Immagini e Media
which means intelligent machines for video, images and media recognition.
The laboratory is located in Fisciano, Campania, Italy.

Chapter 3

Evaluation of the need

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