

Report Lab experience 5

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Experience Gained

In this lab I understand how to :

- Use the function `cv::threshold()` in order to apply otsu's optimal method
- Use `cv::kmeans()` function and how to actually, apply k-means clustering on an image

Unexpected Issues

The main difficulties of this Lab were :

- Task1 : the main difficulty here was to find a method for segmenting the 3 asphalt images that was able to "generalize". In order to achieve this, I have applied otsu's optimal method but with some pre and post processing.
- Task2 : the main difficulty here instead was to visualize the result of the application of k-means on an image.
- Task3 : again, the main difficulty as in task 1 was deciding the method to use to solve this problem. In this case I have simply apply a global threshold with some degree's of freedom in order to detect the T-shirts of the robot's players.

Results

In this section we talk about the experimental results :

- Task1 :

Image 1:

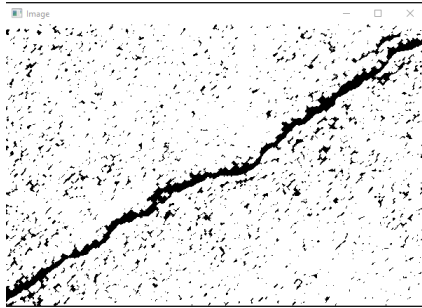
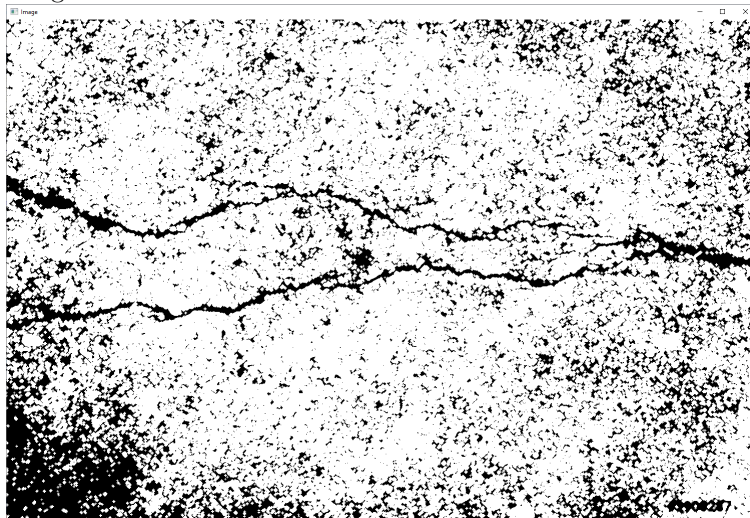


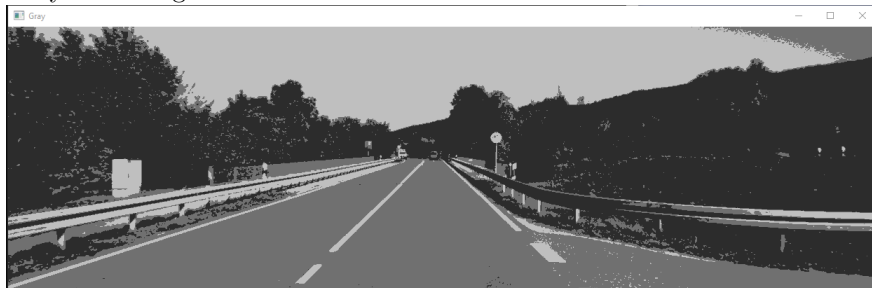
Image 2:



Image 3:



- Task 2 :
Grayscale Image :



Color Image :



- Task 3 :

