

VC. Exercise 2.1

Clustering

Given the BW image in Fig 1:

- i) Apply the K-means method to segment the 2 main structures: object and background.
- ii) Apply the Mean Shift method to segment the 2 main structures: object and background.



Figure 1

Given the color image in Fig 2:

- iii) Apply the K-means method to segment the 3 main structures: sky, clouds, and wheat field.
- iv) Apply the Mean Shift method to segment the 3 main structures: sky, clouds, and wheat field.



Figure 2

Note.- each team of students has to upload a zip file called *lastName1_lastName1_VC_2.1.zip*, to the CV:

Inside the zip should be included:

- A jupyter notebook, showing how the software works (see the example).
- An html file of the notebook.
- The .py files with the python functions that were created.
- All the necessary files to verify the correct operation of the application.

Deadline → December 21, 16:00