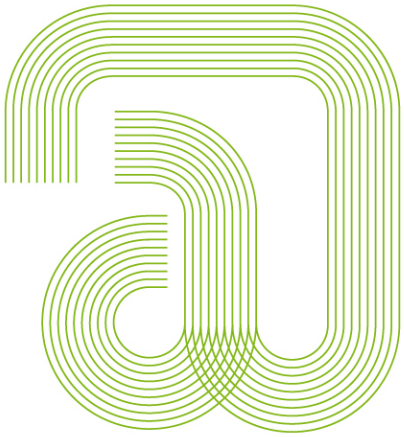
Universidade Vigo

Computer Vision 2 – Lab-Sessions



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1. Skeletonization

Objectives: Install all necessary packages in python (maybe we will extend the tools in the following weeks). Run the jupyter notebook to check that everything works.

1. Download all files ncessary for this week from the web-page

   http://formella.webs.uvigo.es/doc/vcii22/index.html

2. Install all necessary python components, including the `skimage` package.

   https://scikit-image.org/

3. Search the web for some binary images to use besides the default ones provided by `skimage` or generate your own with your knowledge from VC1.

4. Run the jupyter notebook to check whether everything works.

5. Play around with the parameters regarding the `skeletonize` method used: Lee or Zhang. Do you perceive differences? Which one do you prefer? Which properties do they guarantee?

6. Visualize the distance transform as computed by `skimage` and compare to the other distance metrics as available in the `opencv` package.

7. Change the visualization of the `opencv` result to run in `matplotlib` as asked for at the end of the notebook.