# LW IP n°2: filtering

## Deadline 09/04/2020 23:59

# 1    Contour detection

Goal test algorithm on the moon image  galaxy.tiff'

Test on that image the following alogrithms: Robert gradient, sobel, gradient, Laplacian

Join a copy of your Matlab code.

# 2    Filtering

Goal: remove noise from an image

load the image "galaxy"

Add a gaussian white noise on the image and then use a spatial low-pass filter to eleminate the artefacts. Give the measure of the PSNR of the image with noise and of the filtered image.

Then on the original image use a spatial high-pass filter on the original image to enhanced the transitions.

Join a copy of your Matlab code.

# 3    Appplication

Enhance the contrast on the image "body bone scan"

Join a copy of your Matlab code.