1- Crop image

→ crop image : x [660; 5300] et en y [750, 5500]

2- Image Filter

→ use the morphologyEx method in opencv

3- Detect features (Petri plate)

→ binary segmentation of image

→ Find petri plate in foreground mask

→ set serialization parameter of output petri mask

4- Segmentation of image

5- Kept biggest connected component

→ labelled image regions.

→ to measure properties of labelled image regions.

→ to kept the area superior to a x define value

6- Detect leaves and seed

→ labelled image regions.

→ to measure properties of labelled image regions.

→ to kept the area superior to a x define value

→ browse the pixels of the image on the region of interest

→ Kmeans

7- Compute the graph corresponding to the RSA (cf Julien)

→ make "image-graph"

→ make polyline graph

→ shift graph node position by cropped box left corner