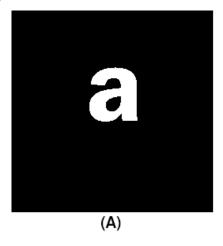
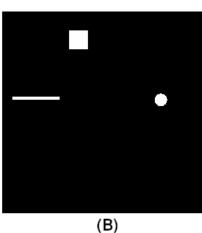
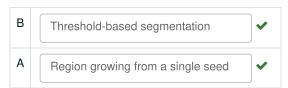


Let the first image on the left-hand side be an input image. The images (A) and (B) are result of a segmentation procedure. Match the images with the segmentation method that generated it.





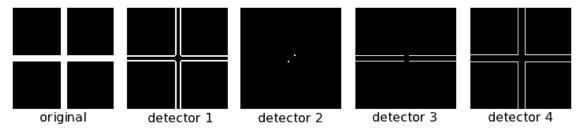


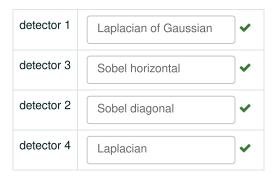


Questão **2**Correto
Atingiu 2,50 de 2,50

Consider the original image and 4 different edge-detection filters.

Match the image with the correct detector



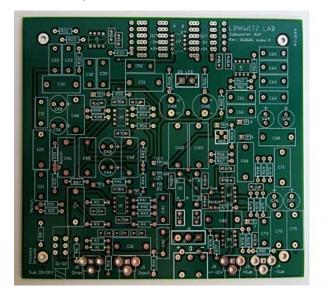


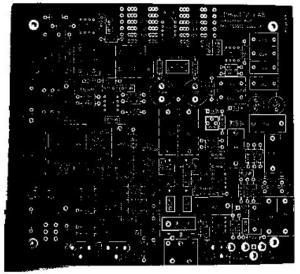
Questão 3

Correto

Atingiu 2,50 de 2,50

Consider the input image in RGB and an attempt to segment the circuits of the board on the right-hand side. What can be considered in this case to improve the results?





- a. Pre-process the image so that to correct the uneven illumination, and use an adequate threshold value.
- b. Use a Laplacian of Gaussian method to smooth out the final result
- oc. Use the Hough transform to match the desired shapes
- od. Define multiple random seeds and use a Watershed segmentation

Questão 4

Correto

Atingiu 2,50 de 2,50

Depending on the segmentation objective, different methods may be used.

If the objective is to find multiple occurrences of a fixed shape that can be modelled using a mathematical formula then the

Hough transform ✓ is more adequate.

If there is no fixed shape and we want to find similar regions at specific parts of the image, it is possible to define seeds and use the

Watershed method ✓

If the desired regions to be segmented are related to the intensity levels, one group are dark and the other group are bright pixels, than

Threshold-based approach is a good choice.

Edge-based segmentation

▼ [interactive video 9-6] Watershed implementation in Python and Distance Transform

Seguir para...

[interactive video 10-1] Deep Neural Networks for Image Classification - Motivation ▶