

Digital Image Processing & Pattern Recognition
UPEC - Optics, Image, Vision and Multimedia

Descriptors

For the images spade ♠ (*card_spade*), club ♣ (*card_club*), heart ♥ (*card_heart*), and diamond ♦ (*card_diamond*), generate a table of features, to include the centroid, rectangular extent (width and height), area, perimeter, and circularity. You can use the *measure.label* and *measure.regionprops* functions from the *skimage* library.

Count automatically the number of each class in the image *cards*.

- Design a system that can automatically classify different shapes (*spade ♠*, *club ♣*, *heart ♥* and *diamond ♦*) in image (*cards.bmp*).

