

Hwk 5, Q&A

Question:

I have a question about 3.b. from the homework. Is the question asking how intensity in an image (brightness values of grayscale pixels) is treated by the Hough transform?

I'm not sure that the article by Hart, or the original paper it cites, addresses how intensity can be treated (although a sort of "intensity" accumulates on the accumulator diagram). In my response, I explained how the method works to my understanding, and gave an idea about how grayscale intensity might be treated.

Answer:

The question was mainly designed to have people think about how an accumulator diagram is constructed. This can be understood with simple binary (0 or 1) images. Nevertheless, it is good to think about having a finite range of intensities in each pixel. What you sent me looks quite reasonable.