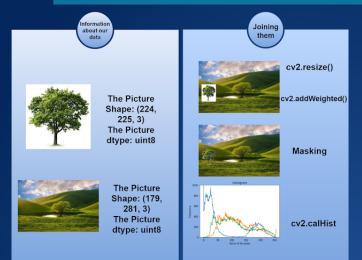
Image Preprocessing

Two images were joined and processed in order to find a suitable image with clear edges.

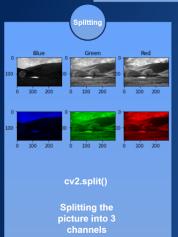
S. Hadis Hashemi Homami

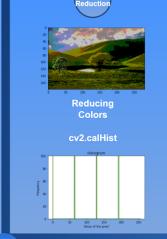


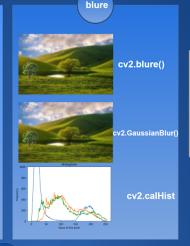
Preparing The Data

Making a Dataset

Starting with loading our Images, extracting their information like shape, size and data type. In order to join two images, the tree image had to be resized first and since it had background, a mask was created. after joining the images, for more study, the histogram was drawn.







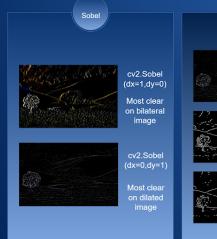
To get the best result by edge detections, we started to make a dataset of the image. The first three images were the original image split into 3 channels (red, green, blue). The next image is the result of the equalization on our image.

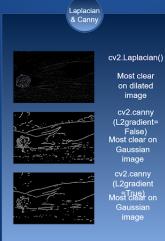


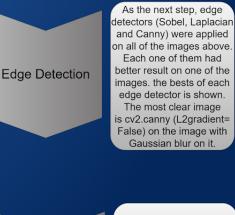


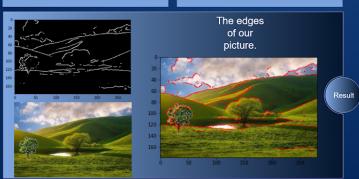


Bilateral filter and low pass and high pass filters such as Median blur, Erosion Making a Dataset and Dilation were applied on the Image.









With comparing the Images, it was observed that if we combine Bilateral and Gaussian filters, the Combination of the esult gets more clear. After image and the edge finding the most clear detection image for edges, it is joined with the original image to see the result