Parameters

bilateral.py = blurred\_image = cv2.bilateralFilter(image, 15, 100, 100)  ## was 65 , 65

gaussian.py = blurred\_image = cv2.GaussianBlur(image, (9,9), 0) ## was 5 , 5

colorbalanceadjustment.py =

blue\_gain = 2.5   # was 1.2

green\_gain = 2.8  # was 0.8

red\_gain = 1.5      # was 1.0

whitebalance.py = corrected\_image = ImageOps.autocontrast(image, cutoff=7) # was 5

cv.py =

contrast = 1.2  # was 1.5

brightness = 16  # was 10

GammaCorrection.py =

contrast = 1.3  # was 1.5

brightness = 1.3  # was 1.5

CLAHE.py =

clahe = cv2.createCLAHE(clipLimit=1.1, tileGridSize=(23, 20))  # was 2 , 8 , 8

denoising.py =

denoised\_image = cv2.fastNlMeansDenoising(gray\_image, None, h=11, searchWindowSize=25) # was 10 and 21

k means clustering.py =

num\_clusters = 3 # was 5