

CSE 464 Digital Image Processing
Fall 2024- HW1

Due Date: 30.10.2024, 23:59

Use the image at this [link](#) for your algorithms

You are expected to perform affine transformation (scale, rotate (60 degree), horizontal shear (1.4 times), zoom (1.4 times)). The rotation should be made according to the center location ($x_0: \text{height}/2$, $y_0: \text{width}/2$) of the image. All the translated image should cover the full original image.

A: use forward mapping and compare the results with the original image

B: use backward mapping without interpolation and compare the resulted images

C: use backward mapping by using bilinear interpolation and compare the resulted images

You are expected to prepare a report including your results which were written in academic rules. Your report will also include your codes as an appendices. Please don't use function except loading and showing the images.