

Chapter 4, Image enhancement, exercise 1 (p.359 ex.7)

An image has a uniform PDF (normalized gray-level histogram) over the range $[25, 90]$, with the probability being zero outside this interval within the available range of $[0, 255]$. Derive an analytical representation of the transform to perform histogram equalization. Explain its effects on the image in terms of the modification of gray levels and the histogram.