# **Digital Image Processing**

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## **Problem 1 Requirement**

#### 1. Histogram Equalization (test images: fig1.jpg, fig2.jpg)

- (a) Write a computer program for computing the histogram of an image.
  - (b) Implement the histogram equalization technique.
- (c) Your program must be general to allow any gray-level image as its input.

As a minimum, your report should include the original image, a plot of its histogram, a plot of the histogram-equalization, transformation function, the enhanced image, and a plot of its histogram.

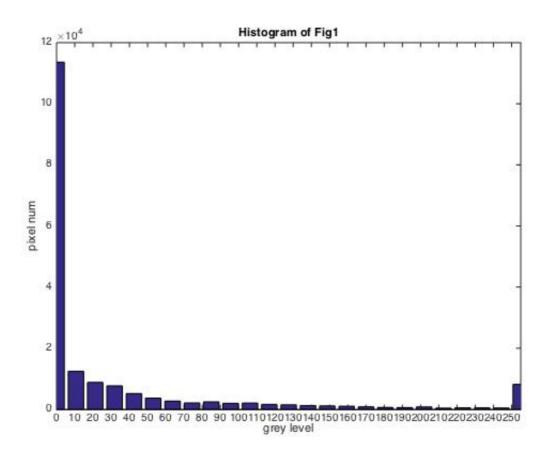
#### **Problem solutions**

#### code of histogram of Fig1

#### original Fig1



histogram of Fig1

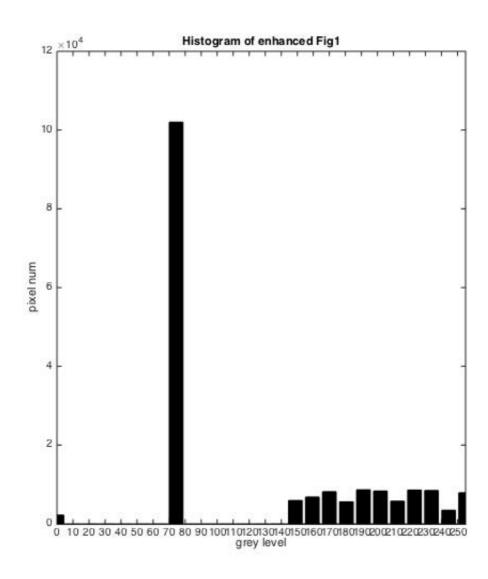


## code of equalization of Fig1

## enhanced Fig1



histogram of enhanced Fig1



## code of histogram-equalization transform

#### histogram-equalization transform function

