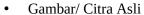
Nama Panji Iman Baskoro

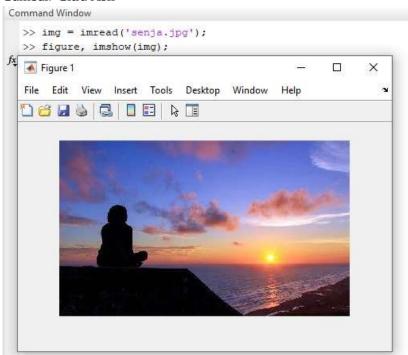
NRP : 171111023

Matakuliah: Pengolahan Citra Digita (A).

# **TUGAS PCD Image Restoration**

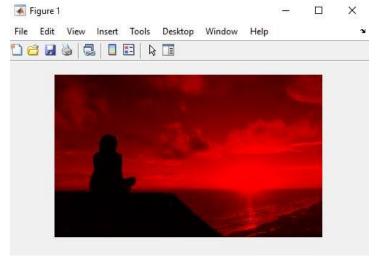
1. Carilah gambar/citra berwarna, tunjukkanlah histogram untuk masing-masing komponen warna (Red,Green dan Blue)

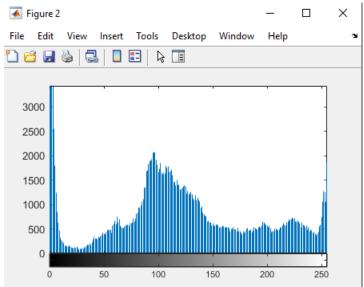




Red

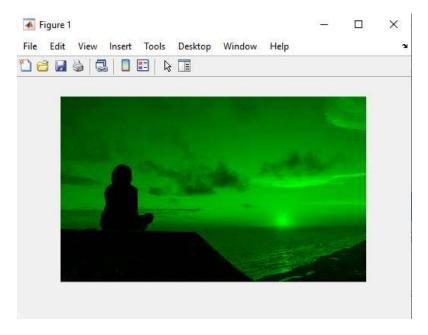
```
>> img = imread('senja.jpg');
>> figure, imshow(img);
>> imgR = img(:,:,1);
imgG = img(:,:,2);
imgB = img(:,:,3);
figure,imshow(cat(3, imgR, imgG.*0, imgB.*0));
>> figure,imhist(imgR);
```

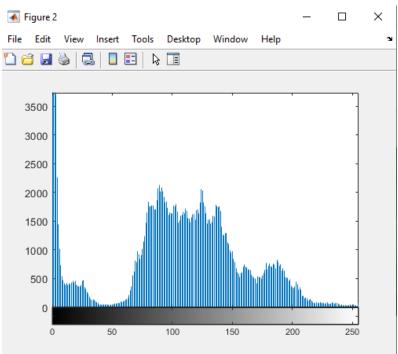




## Green

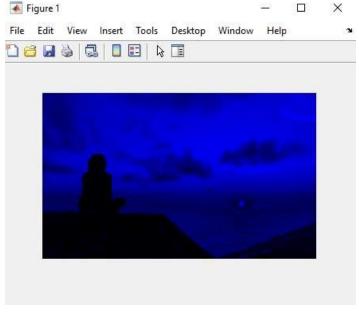
```
>> figure,imshow(cat(3,imgR.*0, imgG, imgB.*0));
figure,imhist(imgG);
```

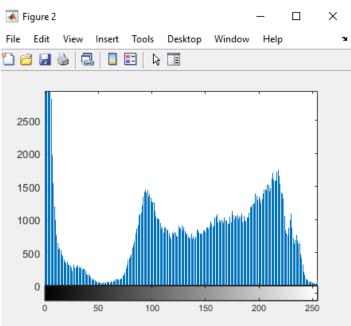




## Blue

```
>> figure,imshow(cat(3,imgR.*0,imgG.*0, imgB));
figure,imhist(imgB);
```



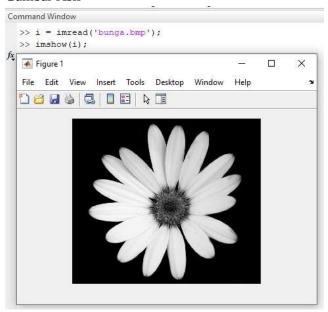


- 2. Carilah gambar grayscale, lakukan proses restorasi untuk citra yang terkena noise dengan jenis noise :
  - a. Gaussian
  - b. Salt & Pepper
  - c. Speckle

Tampilkan output dari citra sebelum dan sesudah perbaikan citra, serta tampilkan coding Matlab untuk melakukan proses perbaikan citra tersebut.

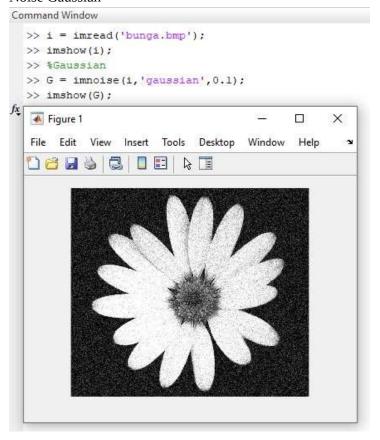
## Jawab:

## • Gambar Asli

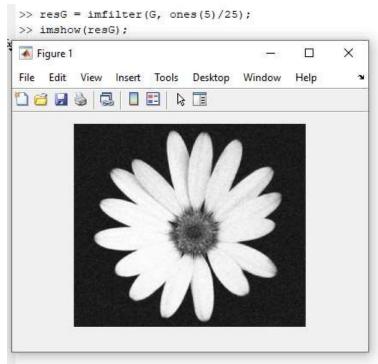


## a. Gaussian

#### > Noise Gaussian

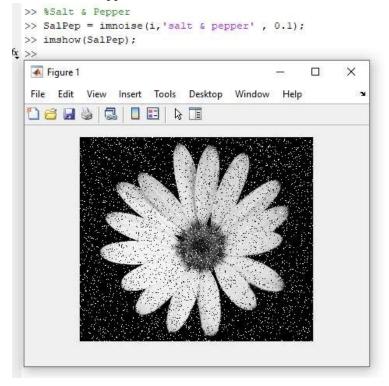


#### > Restorasi

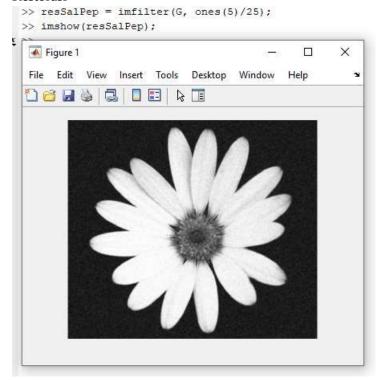


## b. Salt & Pepper

## ➤ Noise Salt & Pepper

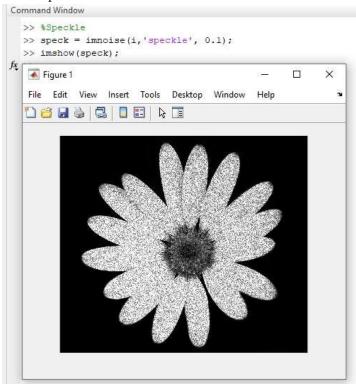


#### > Restorasi



# c. Speckle

## > Noise Speckle



> Restorasi

