

Correction

TP3 : Rehaussement d'images

Exercice 1 : Inversion de la dynamique d'une image

```
clc
close all
clear all
a=imread('cameraman.tif');
b=255-double(a);
figure(1)
subplot(2,2,1),imshow(a); title ('Image originale')
subplot(2,2,2),imhist(a); title ('Histogram Image originale')
subplot(2,2,3),imshow(uint8(b)); title ('Image dynamique inversée')
subplot(2,2,4),imhist(uint8(b)); title ('Histogram Image dynamique inversée')
```

Exercice 2 : Egalisation d'histogramme

```
clc
close all
clear all
a=imread('tire.tif');
b=histeq(a);
figure(1)
subplot(2,2,1),imshow(a); title ('Image originale')
subplot(2,2,2),imhist(a); title ('Histogram Image originale')
subplot(2,2,3),imshow(b); title ('Image histogram égalisé')
subplot(2,2,4),imhist(b); title ('histogram égalisé')
```

Exercice 3 : Recadrage de la dynamique

```
clc
close all
clear all
a=imread('pout.tif');
b=imadjust(a,[0.3 0.7],[0 1]);
figure(1),subplot(2,2,1),imshow(a); title ('Image originale')
figure(1),subplot(2,2,2),imhist(a); title ('Histogram Image originale')
figure(1),subplot(2,2,3),imshow(uint8(b)); title ('Image histogram recadré')
figure(1),subplot(2,2,4),imhist(uint8(b)); title ('histogram recadré')
```