Stenography and Water Marking

clc

close all

clear all

a=imread('C:\Users\DELL\Desktop\cam.png')

b=imread('C:\Users\DELL\Desktop\abc.jpg')

c=dec2bin(a);

d=dec2bin(b);

%stenography

for h=1:65536

c(h,8)=d(h,1);

end

t=bin2dec(c);

f=reshape(t,256,256);

e=uint8(f);

subplot(2,2,1)

imshow(a);

title('Original Image')

subplot(2,2,3)

imshow(e);

title('Stenography')

subplot(2,2,2)

imshow(b);

title('Hidden Image')

k=1;

for i=1:256

for j=1:256

if(c(k,8)=='1')

q(j,i)=255;

else

q(j,i)=0;

end

k=k+1;

end

end

q=uint8(q);

subplot(2,2,4)

imshow(q);

title('Restored Image')

figure(2);

a1=imread('C:\Users\DELL\Desktop\cam.png')

b1=imread('C:\Users\DELL\Desktop\abc.jpg')

c1=dec2bin(a1);

d1=dec2bin(b1);

%watermarking

for h1=1:1:65536

c1(h1,4)=d1(h1,1);

c1(h1,5)=d1(h1,2);

c1(h1,6)=d1(h1,3);

end

k=1;

t1=bin2dec(c1);

f1=reshape(t1,256,256);

e1=uint8(f1);

subplot(2,2,1)

imshow(a1);

title('Original Image')

subplot(2,2,3)

imshow(e1);

title('Water Marking')

subplot(2,2,2)

imshow(b1);

title('Hidden Image')

k=1;

for i=1:256

for j=1:256

if(c1(k,4)=='1')

q1(j,i)=255;

else

q1(j,i)=0;

end

if(c1(k,5)=='1')

q1(j,i)=255;

else

q1(j,i)=0;

end

if(c1(k,6)=='1')

q1(j,i)=255;

else

q1(j,i)=0;

end

k=k+1;

end

end

q1=uint8(q1);

subplot(2,2,4)

imshow(q1);

title('Hidden Image')