**Filtreler**

%%%%%%%%%%%%%%%%%%%%%%%% Mean Filtresi %%%%%%%%%%%%%%%%%%%%%%%%%%

function mean1(A)

B = imnoise(A,'salt & pepper',0.02);

figure, imshow(B);

[m,n]=size(B);

B=double(B);

for i=2:m-1

for j=2:n-1

C(i,j)=(B(i-1,j-1)+B(i-1,j)+B(i-1,j+1)+B(i+1,j- 1)...

+B(i+1,j)+B(i+1,j+1)+B(i,j-1)+B(i,j)+B(i,j+1))/9;

end

end

C=uint8(C);

figure;imshow(C);

end

%%%%%%%%%%%%%%%%%%%%%%%% Median Filtresi %%%%%%%%%%%%%%%%%%%%%%%%

function median1(A)

B = imnoise(A,'salt & pepper',0.02);

figure, imshow(B);

[m,n]=size(B);

B=double(B);

for i=2:m-1

for j=2:n-1

B2=sort([B(i-1,j-1) B(i-1,j) B(i-1,j+1) B(i+1,j- 1)...

B(i+1,j) B(i+1,j+1) B(i,j-1) B(i,j) B(i,j+1)]);

C(i,j)=B2(5);

end

end

C=uint8(C);

figure;imshow(C);

end

%%%%%%%%%%%%%%%%%%%% Kenar Bulma %%%%%%%%%%%%%%%%%%%%%%

function kenar2(a)

a=double(a);

[m, n]=size(a);

for i=2:m-1

for j=2:n-1

b(i-1,j-1)=-a(i-1,j-1)-a(i-1,j)-a(i-1,j+1)-a(i+1,j- 1)...

-a(i+1,j)-a(i+1,j+1)-a(i,j-1)+8\*a(i,j)-a(i,j+1);

end

end

b=uint8(b);

figure;imshow(b);

end

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

function kabartma2(a)

%a=imread('cameraman512.jpg');

a=double(a);

[m, n]=size(a);

for i=2:m-1

for j=2:n-1

b(i,j)=-a(i-1,j-1)-a(i-1,j)-a(i,j-1)...

+a(i+1,j)+a(i+1,j+1)+a(i,j+1)+128;

end

end

b=uint8(b);

figure;imshow(b);

end

function kenar\_renkli(a)

%a goruntusu renkli bir goruntu olmali

a=double(a);

[m,n,k]=size(a);

for i=2:m-1

for j=2:n-1

b(i-1,j-1,:)=-a(i-1,j-1,:)-a(i-1,j,:)-a(i-1,j+1,:)-...

a(i+1,j- 1,:)-a(i+1,j,:)-a(i+1,j+1,:)-a(i,j-1,:)+...

8\*a(i,j,:)-a(i,j+1,:);

end

end

b=uint8(b);

figure;imshow(b);

end