convolution encode

function B = convolve(A, k);

[r c] = size(A);

[m n] = size(k);

h = rot90(k, 2);

center = floor((size(h)+1)/2);

left = center(2) - 1;

right = n - center(2);

top = center(1) - 1;

bottom = m - center(1);

Rep = zeros(r + top + bottom, c + left + right);

for x = 1 + top : r + top

for y = 1 + left : c + left

Rep(x,y) = A(x - top, y - left);

end

end

B = zeros(r , c);

for x = 1 : r

for y = 1 : c

for i = 1 : m

for j = 1 : n

q = x - 1;

w = y -1;

B(x, y) = B(x, y) + (Rep(i + q, j + w) \* h(i, j));

end

end

end

end

>> FUNCTION conv(x,h)

close all

clear all

x=input('Enter x: ')

h=input('Enter h: ')

m=length(x);

n=length(h);

X=[x,zeros(1,n)];

H=[h,zeros(1,m)];

for i=1:n+m-1

Y(i)=0;

for j=1:m

if(i-j+1>0)

Y(i)=Y(i)+X(j)\*H(i-j+1);

else

end

end

end

Y

stem(Y);

ylabel('Y[n]');

xlabel('----->n');

title('Convolution of Two Signals without conv function');

Cannot find an exact (case-sensitive) match for 'FUNCTION'

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