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%%%%%%%%%%%%%% DSP LAB PROJECT %%%%%%%%%%%%%%%
%%%%%%%%%%%%%% FACE RECOGNITION %%%%%%%%%%%%%%%
%%%%%%%%%%%%%% 18NOVEMBER2018 %%%%%%%%%%%%%%%

clc;
clear all;
close all;
x = rgb2gray(imread('pic4.png'));
y = rgb2gray(imread('pic2.png')); %To grayscale to use with normxcorr2
imshowpair(y,x,'montage') %Display side-by-side.

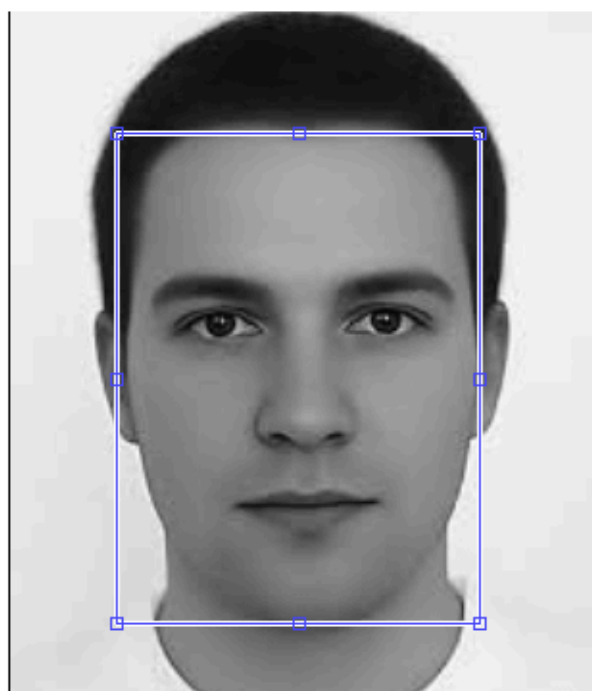
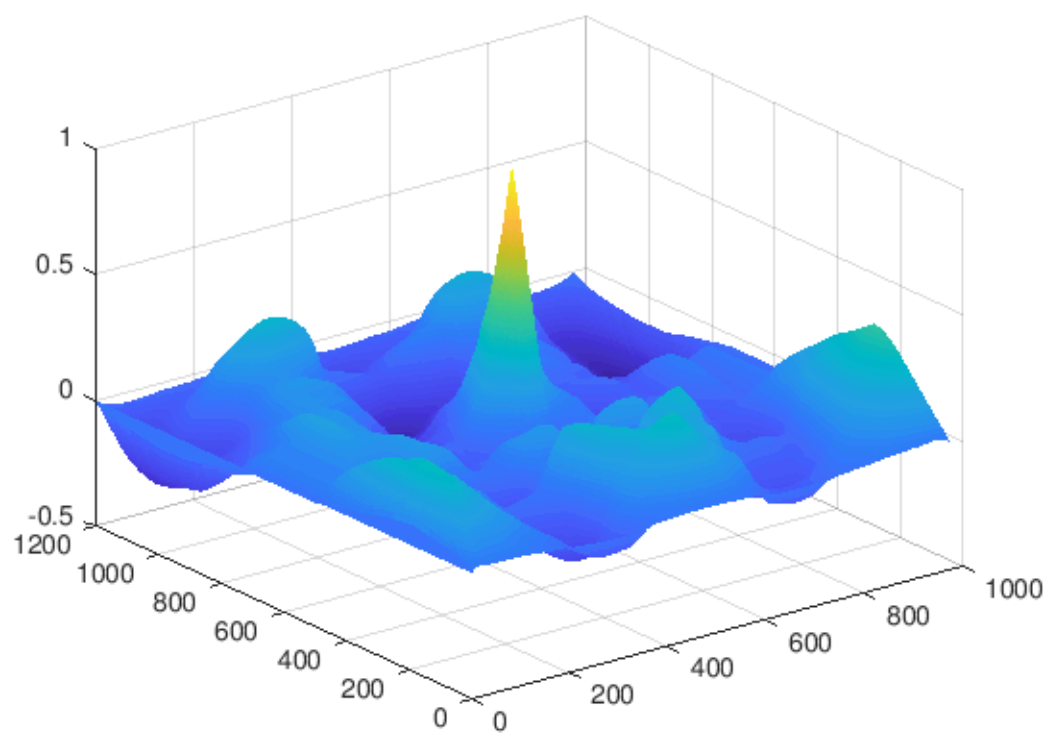
c = normxcorr2(x,y);
figure, surf(c), shading flat %Display result as a surface.

[ypeak, xpeak] = find(c==max(c(:))); %Peak in cross-correlation.

yoffSet = ypeak-size(x,1); %Account padding that normxcorr2 adds.
xoffSet = xpeak-size(x,2);

figure %Display the matched area.
imshow(y);
imrect(gca, [xoffSet+1, yoffSet+1, size(x,2), size(x,1)]);
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