



Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

Assignment

DIGITAL IMAGE AND VIDEO PROCESSING

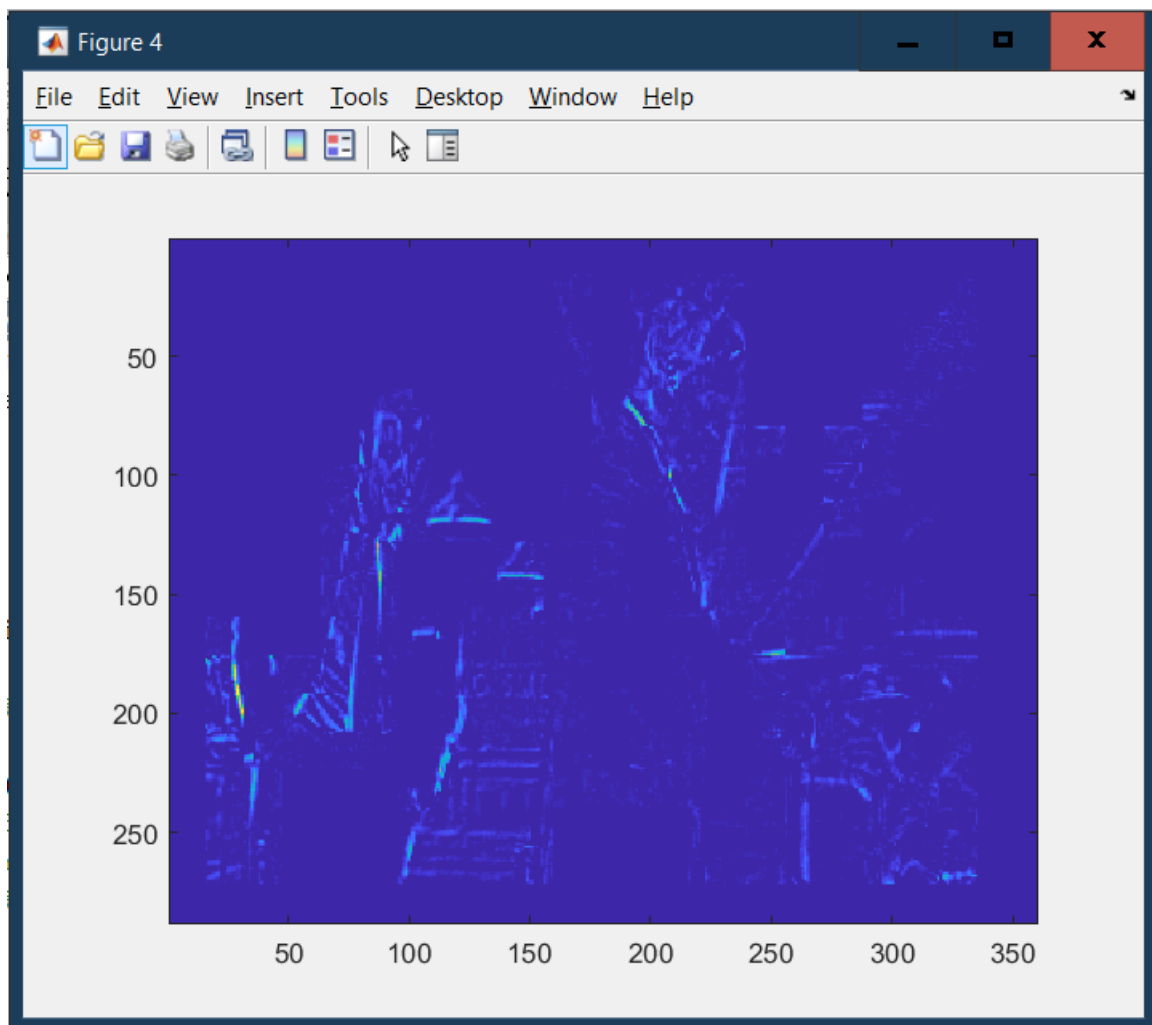
Arnav Malhotra | 17317424 | 17/04/2019

A1a. Following is the code snippet which was added in order to calculate the MAE for each vector:

```
for kx = -w:w,  
    for ky = -w:w,  
        past_block = past_frame(by + ky,bx + kx);  
        error(1+w+ky,1+w+kx) =  
mean(mean(abs(reference_block - past_block)));  
    end  
end
```

A1b. Below is the code added for displaying DFD matrix:

```
%display your dfd as figure 4!  
figure(4);image(dfd);
```



A1.1. Given below is the code snippet for plotting the graph:

```
%INSERT YOUR SINGLE LINE OF DISPLAY CODE HERE!!  
figure(5);plot(dfdOfFrames);xlabel('Frame');  
ylabel('En,n-1');  
title('Plot En,n-1 Vs Frame');
```

And following is the required graph:

