

PRACTICAL 4-VISUAL SOLUTION

MOTION DETECTION

DISCLAIMER: PLEASE BE AWARE THAT YOUR RESULTS MAY BE SLIGHTLY DIFFERENT DEPENDING ON YOUR PARAMETERS, ETC.. THIS IS JUST FOR VISUAL HELP.

TASK 1: GMM

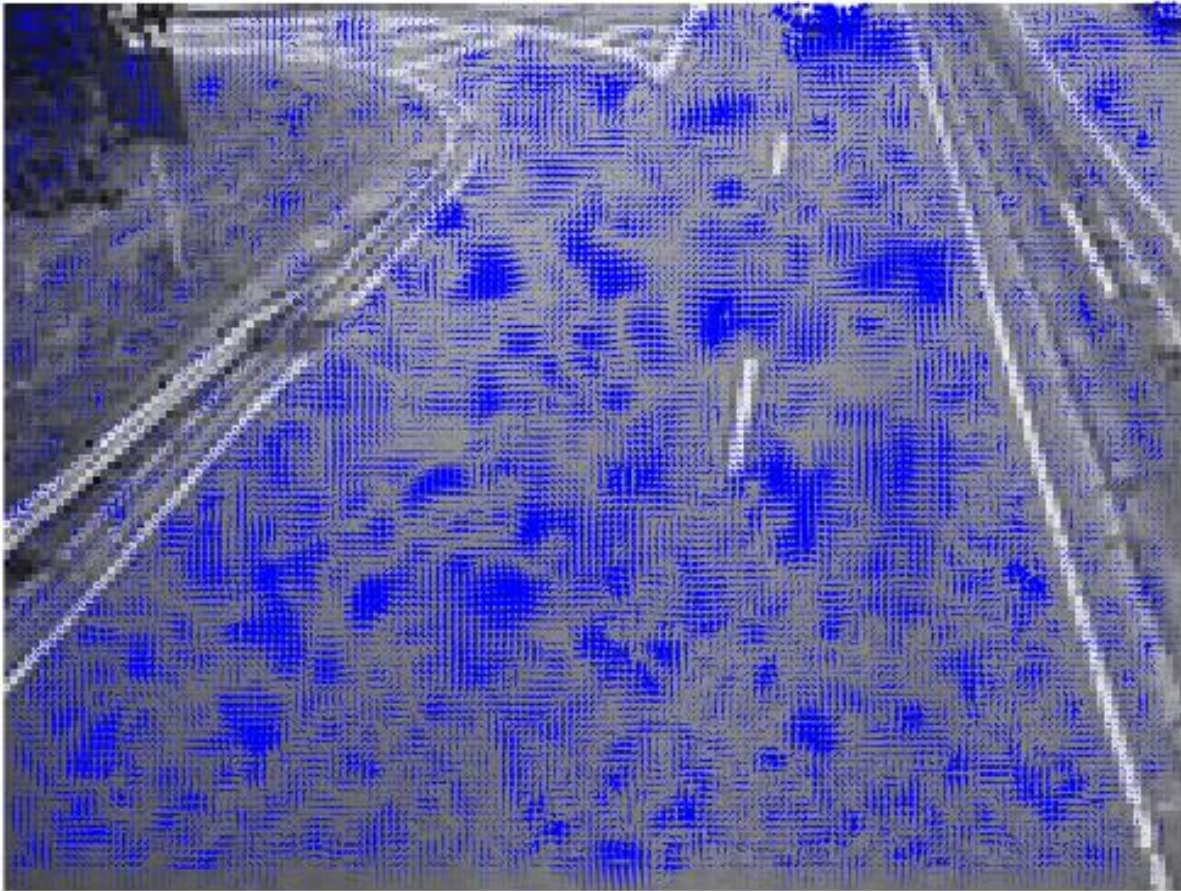
See video 'GMM.mp4'

TASK 2: OPTICAL FLOW

STEP 3:

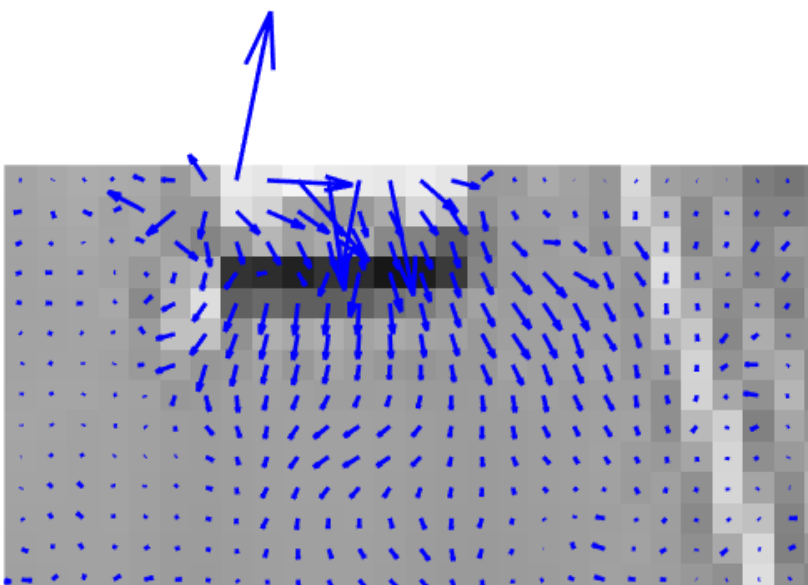
Please remember that the two hour duration of a practical class will probably not be enough time to complete all sections. There is an expectation that you will work outside of class as an independent learner.

Optical Flow



STEP 4:

Optical Flow



STEP 6: See video 'OF.mp4'

OTHER DETECTIONS

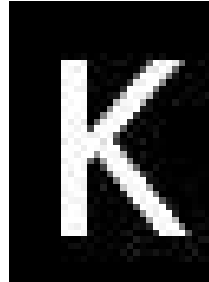
TASK 4: TEMPLATE MATCHING

STEP 5:

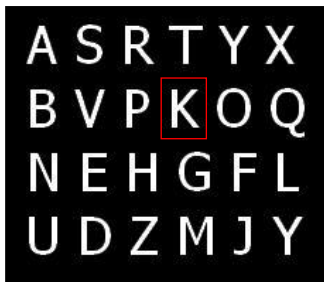
Template



Target

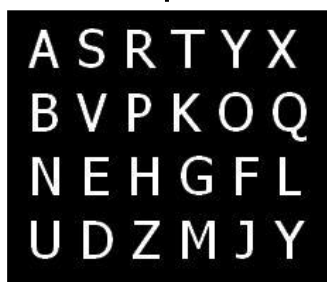


Matching Result using tmp



STEP 6:

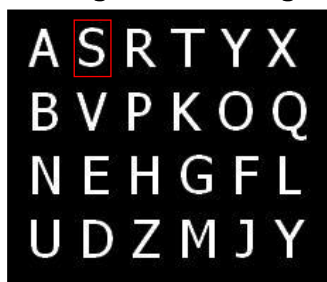
Template



Target



Matching Result using tmp



STEP 7:

Template



Target



Matching Result using tmp



STEP 8: N=100

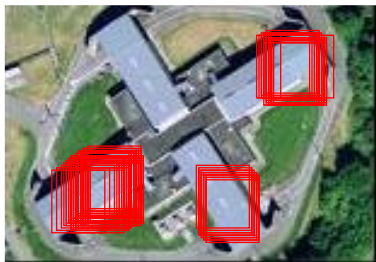
Template



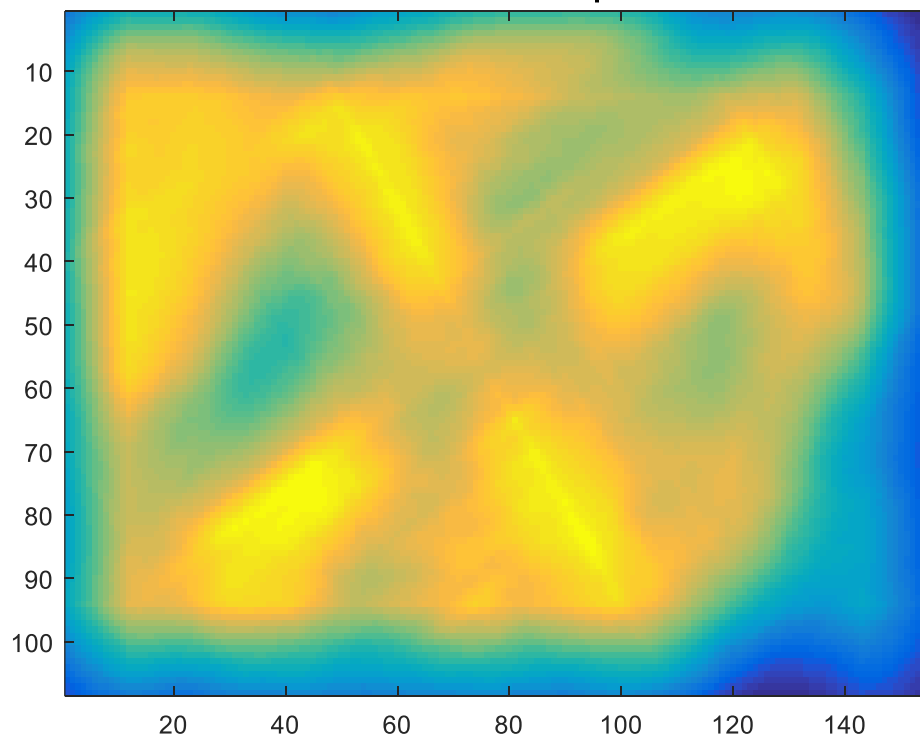
Target



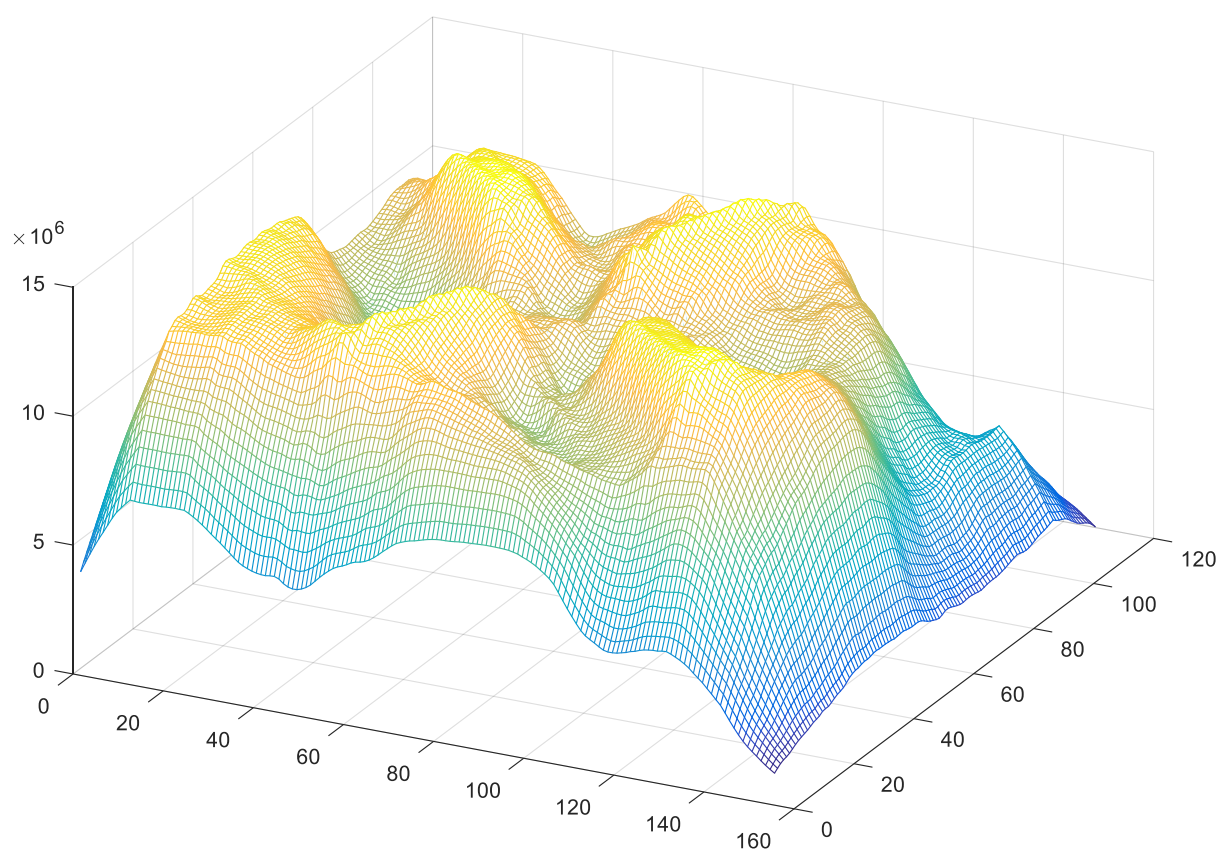
Matching Result using tmp



Correlation Map

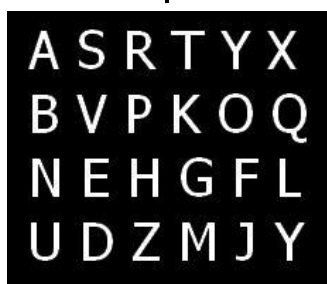


Using the command 'mesh()' to visualise the correlation map:

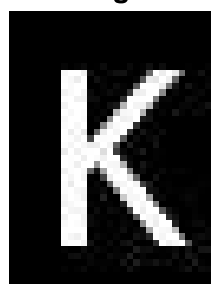


N=10 for letters

Template



Target



Matching Result using tmp

