SPS – Letter Recognition Report (CW2)

* approach to analysis in the Fourier domain
* features you chose to separate the character data
* results of the Fourier domain analysis
* analysis of the classifier
* decision region plot(s) and their analysis for the classifier

This report will discuss how I used the Fourier Transform and feature classification to recognise different alphabetical letters given a set of images. I began by viewing the test set images, the magnitude spectrum and the phase spectrum, but they didn’t reveal much information. I then used a High Pass Filter to remove low frequencies by masking with a central window sized according to the input image (30% approx.). This revealed more information in the magnitude spectrum, especially for the letter T.