

## Lab 6 Image Restoration

- Remove the noise from the input images Q6\_1\_1.tif, Q6\_1\_2.tif, Q6\_1\_3.tif and Q6\_1\_4.tif. Explain your observation and the method used to each of the images, and why such methods are used.
- Image Q6\_2.tif was degraded from an original image due to the atmosphere turbulence given on slide 65 with  $k = 0.0025$ . Restore the original image from the input Q6\_2.tif by using full inverse filtering, radially limited inverse filtering and Wiener filtering. Discuss how the parameters, if any, are determined, and the different effects by using the different algorithms.
- Bonus Question (additional 20 Marks for Lab 6 over 100 marks): Restore the original images from the inputs Q6\_3\_1.tif, Q6\_3\_2.tif and Q6\_3\_3. Explain your observation and the method used.