

Numerical Methods Project

Due Date: 01-May-2016 (11:55 p.m.)

1. Zoom In and Zoom Out using Interpolation.

<http://www.cambridgeincolour.com/tutorials/image-interpolation.htm>

Read the file "Image Resizing using Interpolation".

Make **n** zoom in pictures to the level as per user input(**size**) for each picture and store them.

Make **n** zoom out pictures to the level as per user input(**size**) for each picture and store them.

Note: You can take the desired sizes for **n** inputs in the form of a row matrix to make it easy to work with.

2. Make a Video of the resulting Images.

Use the stored images as frames to form a video from all images.

3. Encipher and Decipher the resulting video using Lorenz and Rossler.

See the provided "Code to Use" folder.

You are provided with the Lorenz and Rossler code that is encipher and decipher an Image use it to encipher the video form in last step and decipher it afterwards.

Note: The files that end with Sol are the main files that you need to change.

4. Save the output Enciphered Video and Deciphered Video.

Save the Resultant Videos in separate folders each for Lorenz and Rossler's.

5. Write a 3 page report.

Write a proper 3 page report showing the whole flow of your project and screenshots of outputs 1st frames.