



Department of Electrical Engineering and Computer Science

**CIS 465 Multimedia
Fall 2021**

Assignment 4

(Due date: 11/01/21)

1. Following the steps discussed in class, write Python program to implement the nonlinear approach for adaptive and integrated neighborhood image enhancement algorithm for enhancement of images captured in low and non-uniform lighting environments.
2. Test and evaluate the algorithm on sample color images of different types (*low lighting, uniform darkness, non-uniform lighting and extremely dark images*).
3. Use the image from your previous assignment and compare your results.

What to turn in:

Submit your work through **Blackboard** as **one single** folder including:

- An HTML file called `index.html` that links to the overall summary of your answers (screenshot of part 1 output).
- A folder called `CIS_465` that includes all files, program codes along with the supported files, dataset needed to reproduce your code (if any), etc.

Notes:

- Please make sure that your program runs successfully at other machines!
- Late submissions will receive a penalty of 10% per day up to two days.
- No material will be accepted after two days past the deadline.
- Email submissions will not be accepted.