

**CSCE 5683 – Digital Image Processing  
Final Exam – Spring 2009**

**Instructions:**

- This is a two-hour closed book final exam.
- You are allowed one 8.5x11 page of notes.
- Answer all of the questions below.

**Question #1**

- Describe how histogram equalization operates. Be specific about the algorithm and use equations and diagrams as necessary to explain how this technique works.
- Apply histogram equalization to the 5x5 image below to perform image enhancement. You are welcome to use any output pixel range you wish.

2	2	3	9	9
2	2	3	9	9
3	3	3	9	9
9	9	9	9	9
9	9	9	9	8

**Question #2**

The traditional method to implement neighborhood averaging is to perform a convolution with an  $M \times M$  mask of 1's. One way to improve the computation time is to take advantage of the fact that the neighborhood for  $[x+1,y]$  will overlap most of the neighborhood for  $[x,y]$ . Hence, we can calculate the average for pixel  $[x+1,y]$  in terms of the average for pixel  $[x,y]$  plus  $M$  pixels that are added to the right side of the  $[x+1,y]$  region, minus  $M$  pixels that are removed from the left side of the  $[x,y]$  region.

- How many operations are needed to calculate each output value using the traditional neighborhood averaging for  $M \times M$  masks as  $M$  varies from 1 to 10?
- How many operations are needed to implement the fancy neighborhood averaging algorithm described above as  $M$  varies from 1 to 10?
- Do you think this approach can be used for any convolution operation? Explain why or why not.
- Do you think this approach can be extended to work for median filtering? Explain why or why not.

# Digital Image Processing Exam Solution

**R Barnett**



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