CSE/ECE 478: Digital Image Processing

Assignment # 3

Due: Before 5:00pm on 12/10/2017

General Instructions:

- Assignment can be implemented in Matlab/Octave or any other language/platform agreeable to TA's.
- Ensure that submitted assignment is your original work. Please do not copy any part from any source including your friends, seniors and/or the internet. If any such attempt is caught then serious actions including an **F grade in the course** is possible.
- A single zip file needs to be uploaded to the Courses Portal. The file should contain a brief report, your results as well as the code you have written and its output.
- Include the assignment number, your name and roll number at the top-left of the first page of your submission.

Problem 1 Rcovering Curves: Find following structures in images

A. Circles of different sizes in at least 3 images
B. Parabolas of different sizes in at least 3 images
C. Rectangle of different sizes in at least 3 images

Problem 2 Segmentation/Template Search/Object Detection: Find players in images

A. Output binary image with players as foreground in Cricket1.jpg
B. Provide a generic version of this code that can work on other images