CSE 4227: Digital Image Processing

Group B

P1. Design a Matlab Simulink model for different types of edge detection, such as, Sobel, Robert, Prewitt, and Canny.

[40 marks]

P2. License Plate Recognition

Design a Simulink model to recognize the characters on a license plate using morphological image processing operations. You need to download a relevant license plate image from the web and also need to download the character templates, which contains 36 separate images of the alphanumeric characters "ABC…XYZ0123456789" in the same font as the characters written on the license plate.

[60 marks]

Note: You need to write a brief report stating the role played by each member of the group in implementing the model and the contributions made by each group member. Also add a brief description of the Simulink model that you have designed. (The report should not exceed more than 2 pages).

Submission and Presentation deadline: 9 August 2017. Presentation will start from 3:30 pm in the conference room.