Project 2 Grading

1 Image Smoothing (total 20):

1.1: 2D filter: 5 points

1.2: Separable 2D: 5 points

1.3: Separable Gaussian: 10 (separation of x and y needs to be seen in the code and discussed, also construction of Gaussian kernel needs to be in the code)

2 Edge Detection (total 15):

Edge filtering: 5 points

Edge magnitude and orientation maps: 5

At several scales (Gaussian and edge detection: 5

3 Template Matching (total 25):

Construct code including: selection of template, normalization of template, binarization of image, run the correlation with template, thresholding of correlation image to show position of objects, application to ONE image only: Done minimum and everything correct: 20

If several images, or reconstruction of result with patterns shown at the peaks: 5

Report: Maximum 40 for absolute excellent report that includes the full information on procedures, methods and tests applied:

Criteria: Complete descriptions, excellent layout, pictures and graphs, clear discussion of what has been done, discussions: was it good, alternatives, strengths and weaknesses. Maximum points for extended experiments (e.g. several images for template matching) and excellent discussion of WHY the algorithm does what you see as results.