SAN JOSE STATE UNIVERSITY
DEPARTMENT OF ELECTRICAL ENGINEERING

HOMEWORK No.2 – Due Mar. 2

Problem 1 (Use Matlab or any language of your choice for this problem; Attach well-commented source code and the input and output images.)

Add a random noise to Lena image, and apply Gaussian filter as discussed in slides #6 to #10 of Lecture Note 3. You may use "imnoise" if using Matlab.

List your well-commented source code and attach filtered output images.

Problem 2

Apply LOG filter, as discussed in slides #22 to #30 of Lecture Note 3, to the Lena image, and show the output edge images, along with a well-commented source code.

Problem 3

Add a random noise to Lena image, and apply bilateral filter as discussed in slides #36 to #39 of Lecture Note 3.

List your well-commented source code and attach the filtered output images.