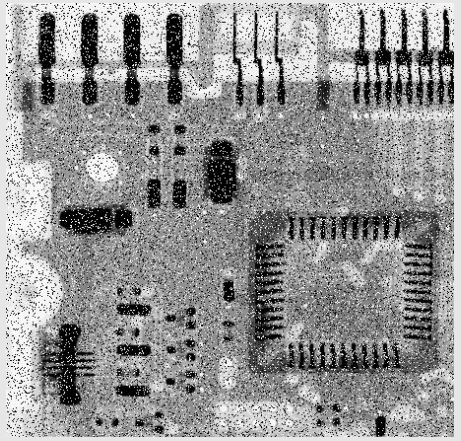
#6

twodSFilter(f,w)

i. Write a function **g=twodSFilter(f,w)**, for performing 2-D spatial filtering of image, ***f***, and kernel, ***w***. This function should use replicate padding by default. Your function should by default scale the input to the range [0,1].

ii. Test your function implementing a low-pass filter (***averaging spatial filter***) to reduce sharp tansitions in intensity with w=3X3, 11x11 and 21x21, applying in Fig3.37(a).jpg



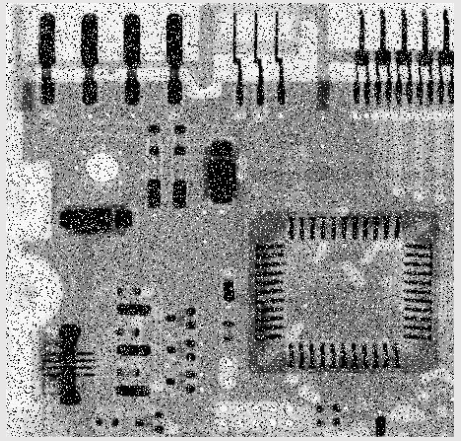
#6

medianSFilter(f,w)

iii. Write a function **g=medianSFilter(f,w),** for performing 2-D spatial median filtering of image, **f,** where, **w** is the size of neigborhood. This function should use replicate padding by default

iv. Test your function implementing applying in **Fig3.37(a).jpg**

image with w igual 3x3



What should be uploaded?

- Main script that call and execute the functions;
- m file (commented);
- Input and processed Images
- Reports.