**CSE585/EE555:  Digital Image Processing II**

**Computer Project # 4:**

**Nonlinear Filtering and Anisotropic Diffusion**

**Yanxi Yang, Jiuchao Yin, Hongjie Liu**

**Date: 04/06/2020**

1. **Objectives**

**To classify /segment different texture regions in an image.**

**To understand the algorithm of Gabor filter and how to implement it on image texture segmentation.**

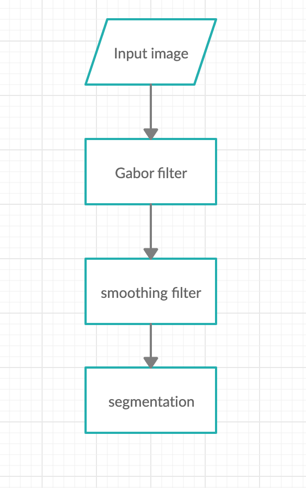
**To investigate the parameters specify the Gabor filter and smoothing filter.**

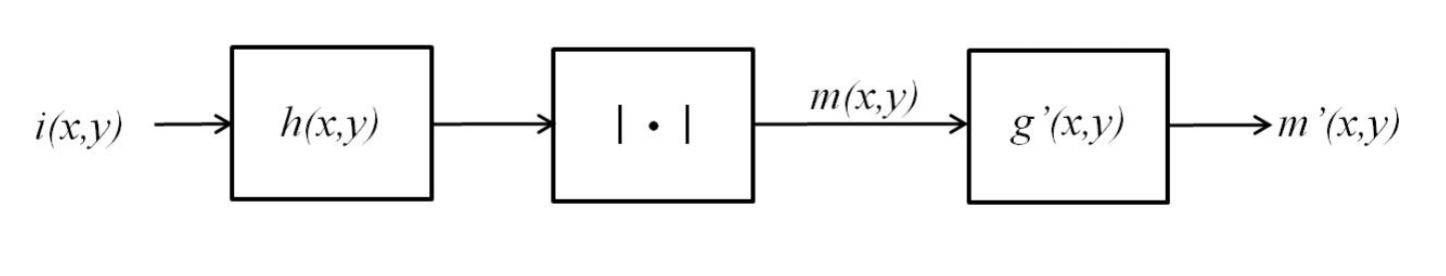
**To get familiar with image 3-D plot from texture analysis from Gabor filter and smoothing filter.**

**To extract boundaries between major textures regions.**

**To explore the criteria of defining a good segmentation of texture.**

**Flow chart**

****

****

1. **Algorithms**
2. **Structure of codes (Readme)**

**Flow chart:**

1. **Results**

# Conclusion

In conclusion, the project