Instructions

1. We use OpenCV 3.0 with Python 3.4+ on Mac OS X.
    a. Instructions on how to install is found here: http://www.pyimagesearch.com/2015/06/29/install-opencv-3-0-and-python-3-4-on-osx/
    b. Note: our code does not work with Python 2.7 (the IU server has OpenCV, but its version only works with Python 2.7)
2. In function.py, we found that we needed to add matplotlib.use('QT5Agg') for plotting to work if using virtual environments, but needed to remove it if we didn't.
3. You will need to go into function.py and change the directory structure to fit how you plan to place the images onto your drive. However, you do need to keep it in the form "/dir1/dir2/image_sequences/with_obstacles" or "/dir1/dir2/image_sequences/no_obstacles" (i.e. with 4 slashes, so you need dir1 and dir2 in your path)
4. It will take about 20-25 minutes to run through the datasets provided.
5. The outputs fp (false positives of obstacle detection in non-obstacle open field dataset) and fn (false negatives of obstacles missed in dense forest dataset) are displayed in the interactive shell to report the accuracy rate of the algorithm on the datasets.