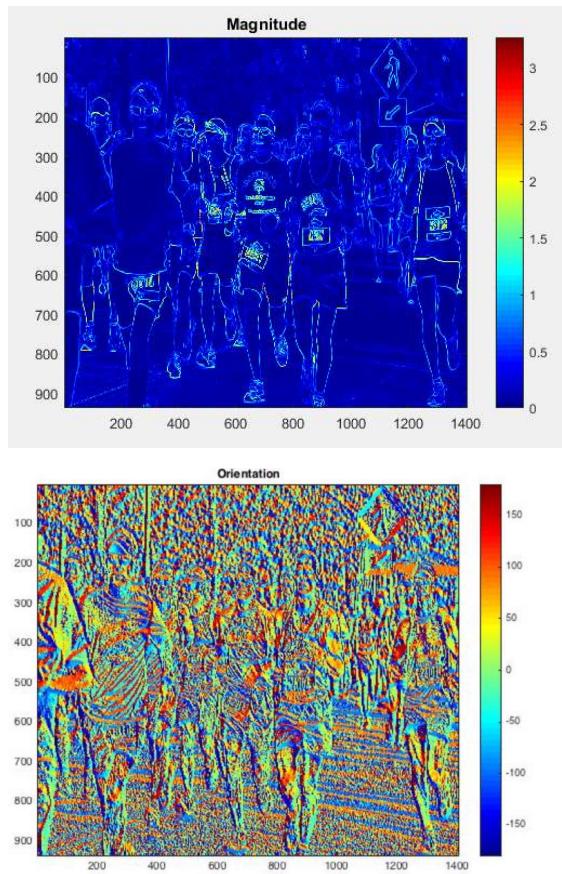


HW4

Sunday, March 5, 2017 9:03 PM

1.



2.



a.









Sign Post Reflector in typical crosswalk application

b.



- c. When the object in the training image fits the entire box selection tool, it becomes more easier to detect the object in other images of similar objects. If the object is too big or too small for the capture, it will be harder to detect and will most likely fail.

Also, it is also easier for the detector to detect objects of the same/similar orientation as the template. If the intended target object has a much different orientation than the template, it will fail. For example, the sign of 'test2.jpg' and 'test5.jpg' are very different in their orientation of the crossing sign. Therefore, the detector will fail to recognize the signs.