

## Computer Vision SBE 404

### Project 3: Feature point detection, features descriptors (SIFT) and image matching (SSD and normalized cross correlation)

Due time: May 3rd, 2021 @ 11:59 pm

**For given set of images (grayscale and color)**

A) Tasks to implement

- 1) Extract the unique features in all images using Harris operator and  $\lambda$ . Report computation times to generate these points.
- 2) Generate feature descriptors using scale invariant features (SIFT). Report computation time.
- 3) Match the image set features using sum of squared differences (SSD) and normalized cross correlations. Report matching computation time.

B) Report all of the above to TA's (One Zip file including report, codes, results, etc).