

# Lab report 6: 2023/05/08

- In this task, I used a combination of SIFT and ORB feature detectors in OpenCV libraries to compare two images.
- With KNN match descriptor and  $K = 5$  for both SIFT and ORB and dropping the points which are further than 0.75, I could have a list of good matching points.
- At the end, for comparing the two images, I used this algorithm:
  - **SIMILAR:** the rotation angle is less than 5 degrees and any of these conditions:
    - If similarity in both methods is more than 30 percent
    - If the angle difference between the two methods is less than 5 degrees
    - If similarity in both methods is more than 20 percent and the angle difference between the two methods is less than 10 degrees.
  - **SIMILAR WITH TRANSFORMATION:** similar but with the rotation angle more than 5 degrees
  - **DIFFERENT CONTENT:** not similar













