# **CS385 Computer Vision**

# Lab13: Panoramic view of a scene from a camera using a sequence of images

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In this Lab you will implement the image stitching using homographies. Note that these images should contain considerable overlap for the technique to work.

Tasks:

* Collect a minimum of 5 photos by standing in a fixed location and turning through some angle as you take each successive shot. Ensure that there is sufficient overlap between successive photos, otherwise you will not be able to establish good correspondences between images. Using any feature-matching algorithm establish interest point correspondences between successive images.
* Using the linear-least squares method, calculate the homography between the pairs of images with the help of the selected inlier set of correspondences.
* Using the computed homographies, stitch the images together by chaining the homographies in order to project them into the coordinate frame of the center image.
* Repeat the Panoramic view with two other feature techniques(eg BRIEF and ORB

**Submission:**

Demonstrate your work . Also submit as a single file the code and images

<https://u.pcloud.com/#page=puplink&code=Xa9kZPj1HxLGV9fhGGpSAFrbSXYkMrJ47>