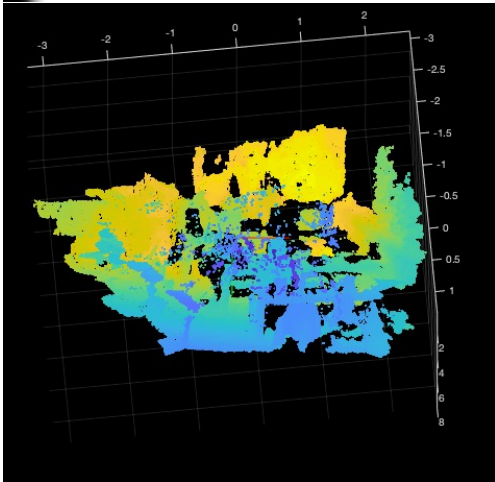# Class 6

- Ransac (example with planes)
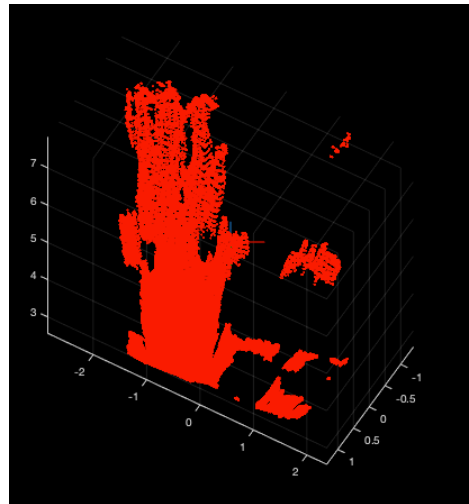
- Background subtraction

To do: Given a point cloud (3D) find the most voted 3D plane.

The point cloud corresponds to points as the image show (depth image of the lab)
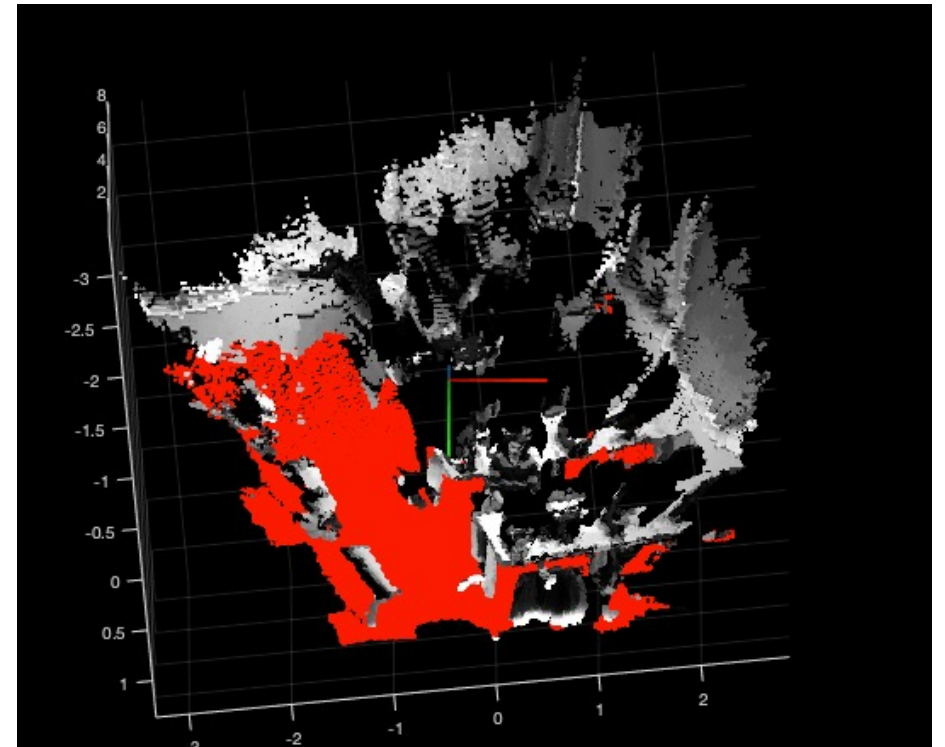
- given the 3D point cloud (original data) design RANSAC for planes.

original data
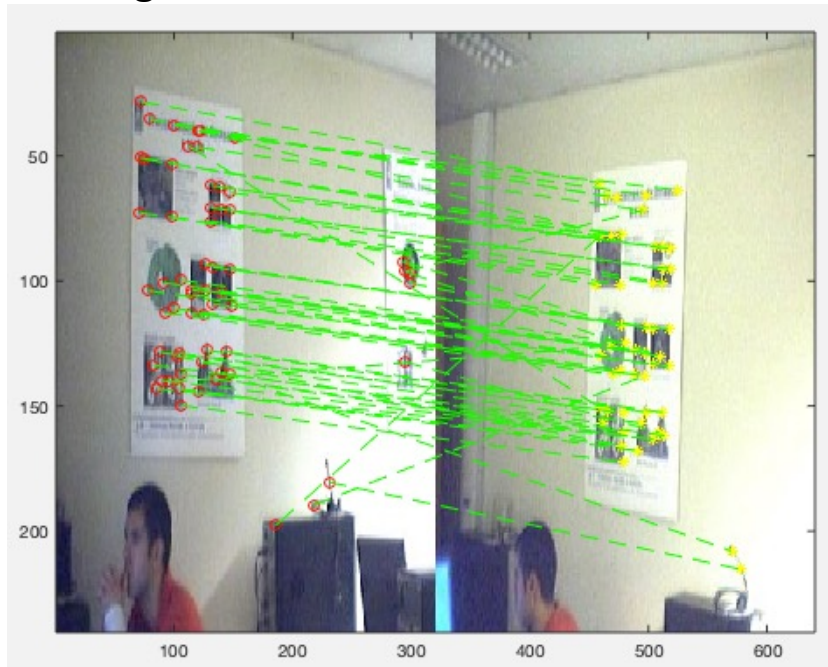

inliers

inliers + outliers

RANSAC FOR HOMOGRAPHYES (your project)

File keypoint pairs contains :
- coordinates of pints from fig 1 (U1,V1) and (U2,V2).
- the two images.

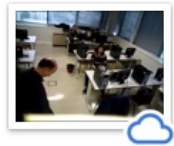| Name	Size	Bytes	Class
U1	61x1	244	single
U2	61x1	244	single
V1	61x1	244	single
V2	61x1	244	single
img1	240x320x3	230400	uint8
img2	240x320x3	230400	uint8

Fig 1 – initial matches

Ransac (do it)

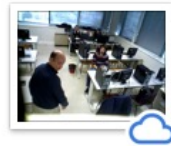Fig 2 – inliers

Background subtraction

- How to detect the background and the moving regions
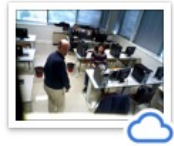- Image sequence (rgb and depth)