Homework 3

Topics in Mathematical Modeling

Due by 01/19/2022

1. Print a checkerboard pattern and use it to calibrate your stereo camera system. Show the intrinsic and extrinsic parameters from your calibration.
2. Take an image of your calibration board using your stereo camera. Extract the corresponding points and find the 3d coordinates of the corresponding points.
3. Repeat (2) a few times and check whether you can always extract the 3D coordinate of the checker board in different location and orientations.
4. Use your stereo camera to take a shot of your room, show the depth estimation of the shot.