

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.