Objectives

Compute the depth map from given left and right images.

Data given

Images captured from left and right cameras of the robot

Methodology

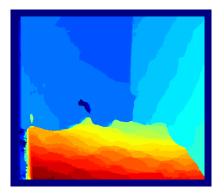
- 1. Convert the images to gray scale.
- 2. Decide a block size (here, 15x15) to extract small patch from left image.
- 3. Search for the corresponding similar patch in the right image by computing Sum of Squared Differences (SSD) between 2 patches with in a range of disparity = 48 pixel.
- 4. In the disparity map array assign the disparity with lowest SSD for each pixel.
- 5. Normalize the disparity map (scale the disparity from 0 255).
 - 6. Produce a heatmap from the normalized disparity ma





Left.png

right.png



Dept map img