

Assignment - 5 Report

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Depth Map:

ref: https://docs.opencv.org/3.4.3/dd/d53/tutorial_py_depthmap.html



Approach:

- A block is selected from the right image.
- A sliding window is defined for the left image.
- A block of the same size is then moved along this sliding window to find the most similar block in the left image.
- Disparity is calculated as follows:

$$\text{Disparity} = \text{position of right block} - \text{position of left block}$$

- This disparity value is put into an empty image to form a disparity map.