Assignment 9

Computer Vision
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1 Exercise 1

Report the estimated intrinsic camera calibration matrices for both cameras (i.e.variables K1, K2).

Answer:

$$K1 = \begin{bmatrix} 3.8403\text{e}+03 & 5.1881 & 2.0504\text{e}+03 \\ 0 & 3.8205\text{e}+03 & 1.1701\text{e}+03 \\ 0 & 0 & 1 \end{bmatrix} \tag{1}$$

$$K2 = \begin{bmatrix} 3.8488\text{e}+03 & -20.1191 & 2.0620\text{e}+03 \\ 0 & 3.8445\text{e}+03 & 1.1569\text{e}+03 \\ 0 & 0 & 1 \end{bmatrix} \tag{2}$$

2 Exercise 2

Report the estimated width and height of the picture by computing the distances between triangulated points.

Answer:

picture width = 138.4882

picture height = 106.2577