
Computer Vision & Pattern Recognition

Spring 2022

Assignment 6

May 2, 2022

Exercise 1 [5 points]

Write a program (similar to the one for assignment #4) that sequentially reads frames from the video `WSC.mp4` (the link to this video is available on iCorsi) and detects those frames that show the snooker table in the default side view (as in the image `WSC_sample_image.png`, also available on iCorsi), following the instructions and suggestions given on the slides.

Hand in your code and count the number of frames that show the side view in the 60-second-period from 0:40:00 to 0:40:59.

Exercise 2 [10 points]

Apply the DLT algorithm to reconstruct the position of the camera that gives the side view, following the instructions and suggestions given on the slides. You may work with the frame at 2:11:57 in the video, provided as sample image on iCorsi (`WSC_sample_image.png`).

Hand in your code and the coordinates of the estimated camera position in non-homogeneous world coordinates.

Solutions must be returned on May 16, 2022 via iCorsi