

Computer Vision

Exercise Sheet 1

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Exercise 1: SLAM (8 Points)

- a) What means SLAM? What are the steps involved? Explain them briefly. (5 points)
- b) Image you are processing a 2 minutes video coming from a black and white camera for visual slam. How does this data look like? (3 points)

Exercise 2: Geometry (7 Points)

- a) What is the importance of having homogeneous coordinates? (3 points)
- b) (4 points)
 - Compute the intersection point of this two lines: $[2,3,7]$ and $[4,5,8]$
 - Join the following points in a line $[8,0,1]$ and $[4,6,4]$