Exercise Sheet Computer Vision 1

Submission: 29.04 10am

Exercise 1   SLAM   (8 Points)

a) What means SLAM? What are the steps involved? Explain them briefly.
   (5 Points)

b) Imagine 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) • 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 $[4, 6, 4]$

   (4 Points)