

Master: ISCG

Part 1: Matlab Application

(Version 1.0)

Frédéric Marin



Matlab Application 1

Write a script ISCG_App1.m

- a) Header
- b) Plot reference frame
 - Xaxis blue arrow
 - Yaxis red arrow
 - Zaxis green arrow
- c) Plot P1=(5,6,10) and P2=(9,8,3)
- d) Draw line between P1 and P2
- e) Compute distance between P1 and P2
- f) Write the distance inside the plot above the line P1P2



Matlab Application 2

Continue the previous script :

- f) Define the vector V as P₁P₂
- g) Define norm of vector V
- h) Define the unit vector based on V



Matlab Application 3

```
Let define P3=(2,2,7)
i) Define the reference frame (x1, y1, z1)
-x1 as unit vector of P1P2
- z1 perpendicular of the plane P1P2P3
j) Draw the reference frame (P1,x1,y1,z1)
```

