Demo code

start

%Add location of MatlabLib in your computer.

libPath = 'D:\Library\Documents\GitHub\Husion-Simulator';

%Add width and height of the map

w = 150;

h = 100;

map = Map(w,h);

fus = Fusion(w,h,libPath);

hold on

l1 = Landmark(1,'b1','building',[12 32;42 23;23 54;21 42]);

map.loadLandmark(l1);

l2 = Landmark(2,'b2','building',[89 69;76 98;37 97]);

map.loadLandmark(l2);

jsonencode(map);

Im = imread('Google.jpg');

Imflip = flip(Im ,1);

imshow(Imflip);

axis on

set(gca,'YDir','normal');

period = 0.1; %time per update (sec, one decimal)

count = period\*10\*2;

camera = Camera(count);

%Add camera's angle of view and Range:

camera.AOV = 80;

camera.Range = 10;

%Robot calls the added camera.

robot = Robot(camera);

stop