

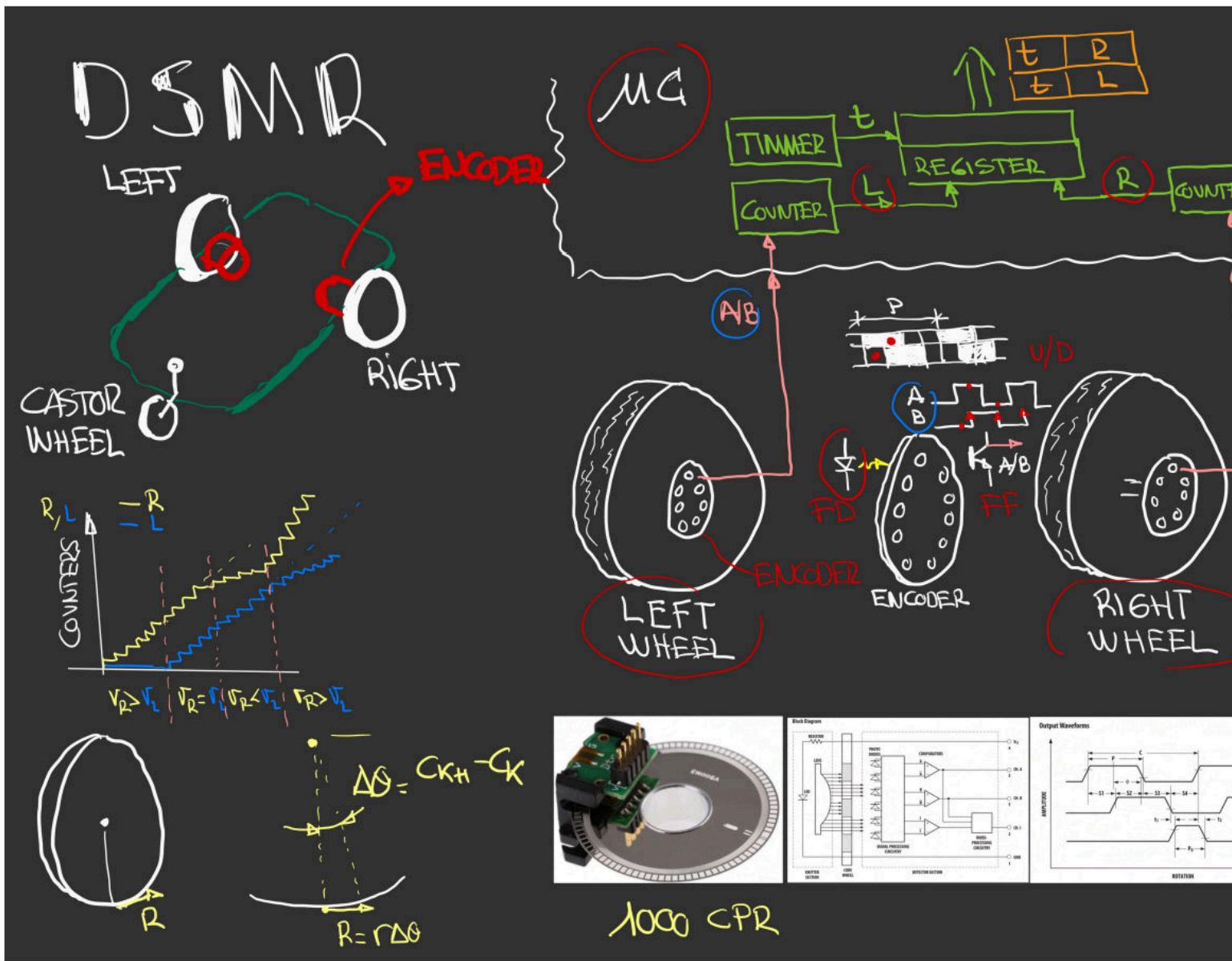
Odometry Data

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G12 - B

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Load Data

```
clear
load('Encoder_Data.mat')
```

R_acu & L_acu: The microcontroller counter report; firsts column time stamp, second column the total displacement of right and left wheel in meters.

R_acu

```
R_acu = 3004x2
    0      0
  0.0200    0
  0.0400    0
  0.0600    0
```

```

0.0800    0
0.1000    0
0.1200    0
0.1400    0
0.1600    0
0.1800    0
⋮

```

L_acu

```

L_acu = 3004x2
    0    0
0.0200    0
0.0400    0
0.0600    0
0.0800    0
0.1000    0
0.1200    0
0.1400    0
0.1600    0
0.1800    0
⋮

```

Ts & Tf : Sample time and total experiment time (Tf=Numbers of rows *Ts) in [s]

Ts

```
Ts = 0.0200
```

Tf

```
Tf = 60.0800
```

```
Tf=length(R_acu(:,2))*Ts
```

```
Tf = 60.0800
```

```
ts=diff(R_acu(:,1)) % it is constant
```

```

ts = 3003x1
0.0200
0.0200
0.0200
0.0200
0.0200
0.0200
0.0200
0.0200
0.0200
0.0200
⋮

```

r_w & W: Mobile Robot parameters; wheel radius and distance between wheels in [m]

r_w

```
r_w = 0.0947
```

```
W
```

```
W = 0.5200
```

```
W % 2S
```

```
W = 0.5200
```

Visualizing L&R info

```
t=R_acu(:,1)
```

```
t = 3004x1
    0
  0.0200
  0.0400
  0.0600
  0.0800
  0.1000
  0.1200
  0.1400
  0.1600
  0.1800
  ⋮
```

```
t=(0:Ts:Tf-Ts)'
```

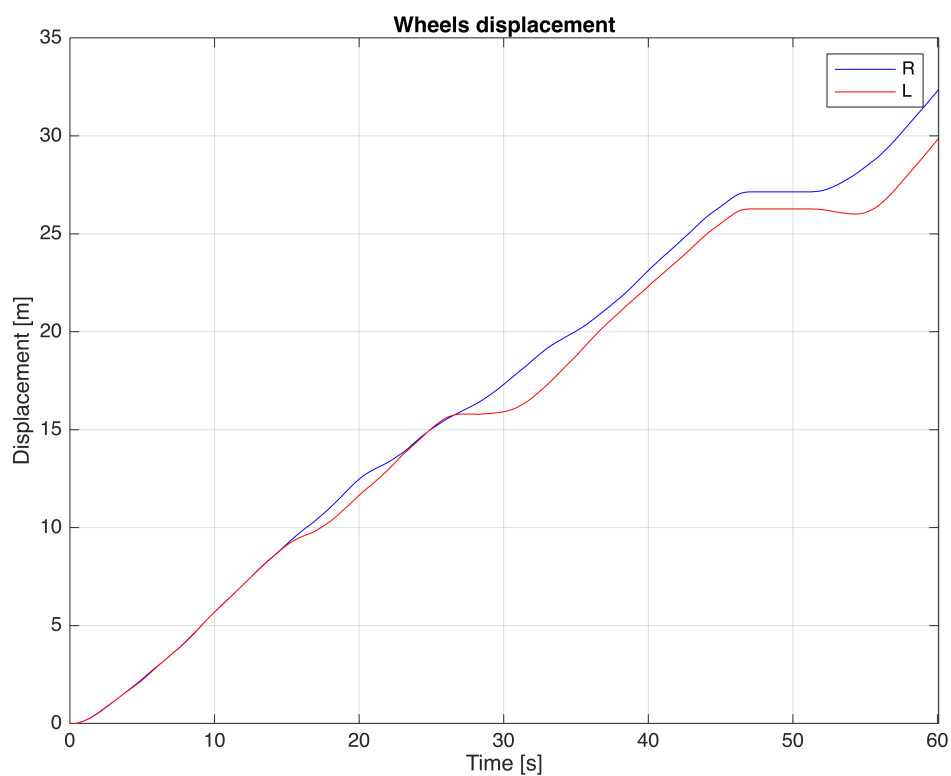
```
t = 3004x1
    0
  0.0200
  0.0400
  0.0600
  0.0800
  0.1000
  0.1200
  0.1400
  0.1600
  0.1800
  ⋮
```

```
t=linspace(0,Tf,length(R_acu(:,2)))'
```

```
t = 3004x1
    0
  0.0200
  0.0400
  0.0600
  0.0800
  0.1000
  0.1200
  0.1400
  0.1601
  0.1801
  ⋮
```

Total wheel displacements profile

```
figure
plot(t,R_acu(:,2),'b')
hold on
plot(t,L_acu(:,2),'r')
xlim ([0 Tf])
grid on
title('Wheels displacement')
xlabel ('Time [s]')
ylabel ('Displacement [m]')
legend('R','L')
```



Wheel incremental displacements

It tell us how much displacement did the wheel during a sample time.

$$R_{\text{inc}} = R_{k+1} - R_k$$

$$L_{\text{inc}} = L_{k+1} - L_k$$

```
R_inc=diff(R_acu(:,2))
```

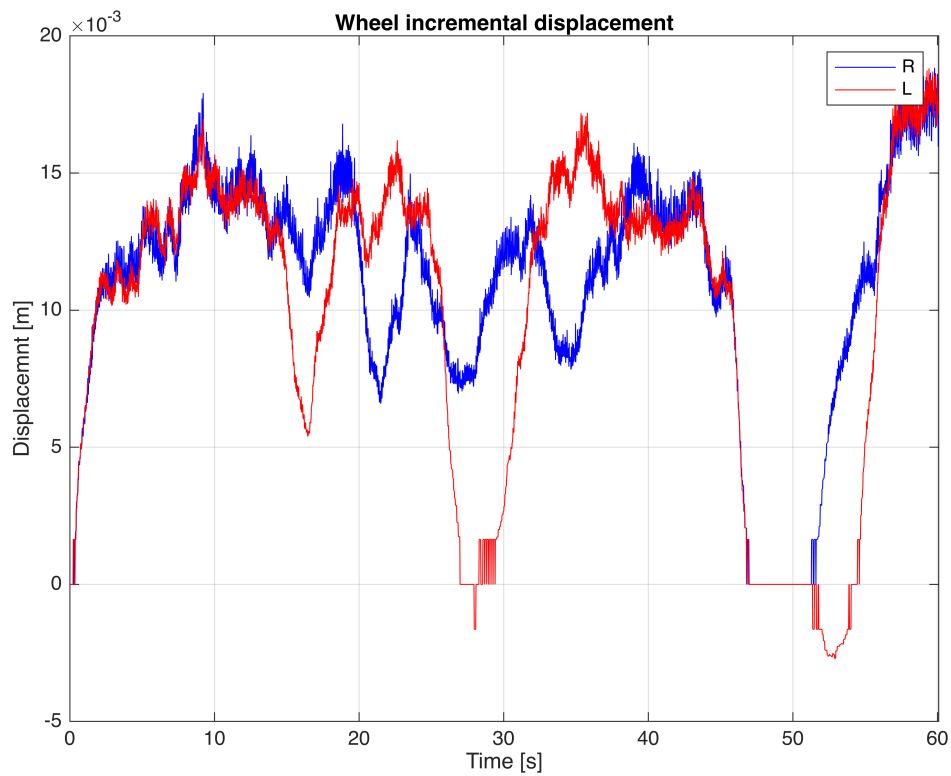
```
R_inc = 3003x1
    0
    0
    0
    0
    0
    0
    0
    0
    0
    0
    0
    :
```

```
L_inc=diff(L_acu(:,2))
```

```
L_inc = 3003x1
    0
    0
    0
    0
    0
    0
    0
    0
    0
    0
    0
    :
```

Incremental displacements profile

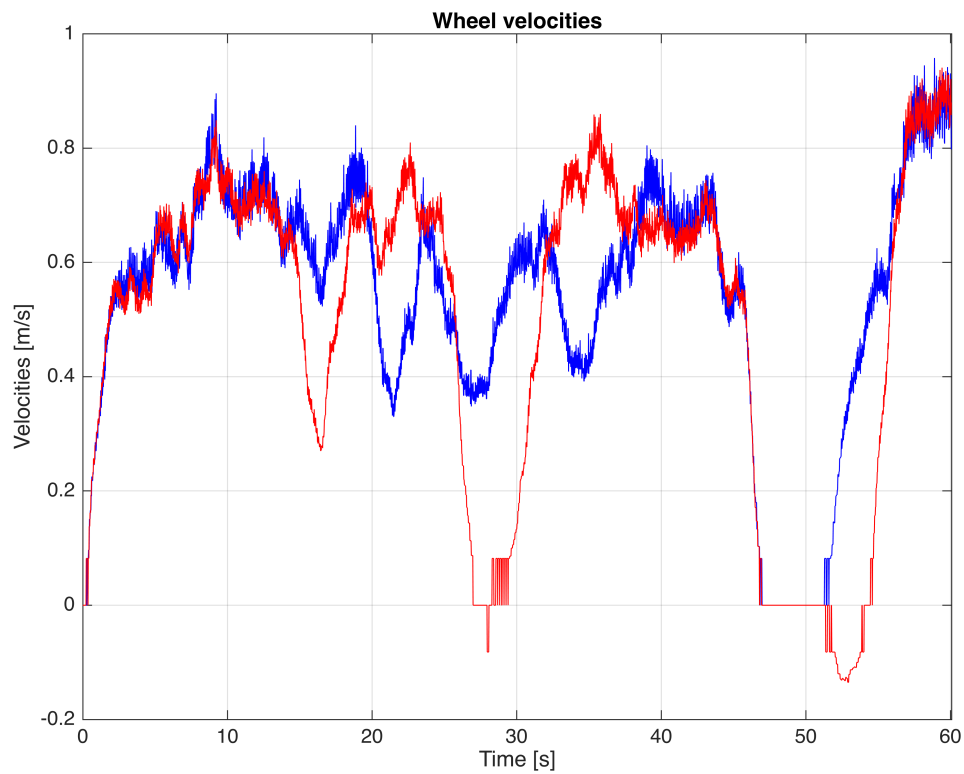
```
figure
plot(t(1:end-1),R_inc,'b') % We losted one sample with 'diff' command
hold on
plot(t(1:end-1),L_inc,'r') % We losted one sample with 'diff' command
hold on
xlim ([0 Tf])
grid on
title('Wheel incremental displacement')
xlabel ('Time [s]')
ylabel ('Displacemnt [m]')
legend('R','L')
```



Visualize increment velocity

$$\text{Velocity} = \frac{\Delta \text{displacements}}{\Delta \text{time}} = \frac{\Delta e}{\Delta t} = \frac{\Delta R}{T_s} = \frac{R_{\text{inc}}}{T_s}$$

```
figure
plot(t(1:end-1),R_inc/Ts,'b')
hold on
plot(t(1:end-1),L_inc/Ts,'r')
xlim ([0 Tf])
grid on
title('Wheel velocities')
xlabel ('Time [s]')
ylabel ('Velocities [m/s]')
```



Equivalence of Encoder Data

Some time the microcontroller gives wheels increment displacement. To recover total wheel displacement

$$R_{acu_k} = \int_0^{t_k} R_{inc}(t) dt \equiv \sum_i^k R_{inc_i}$$

```
R_ac=cumsum(R_inc,1)
```

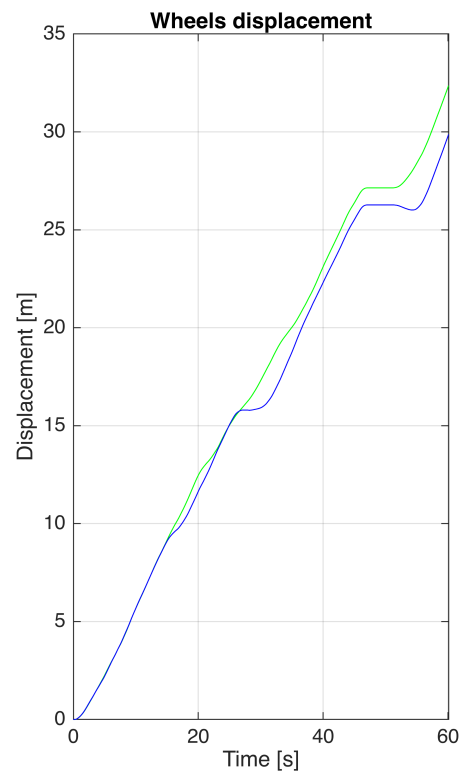
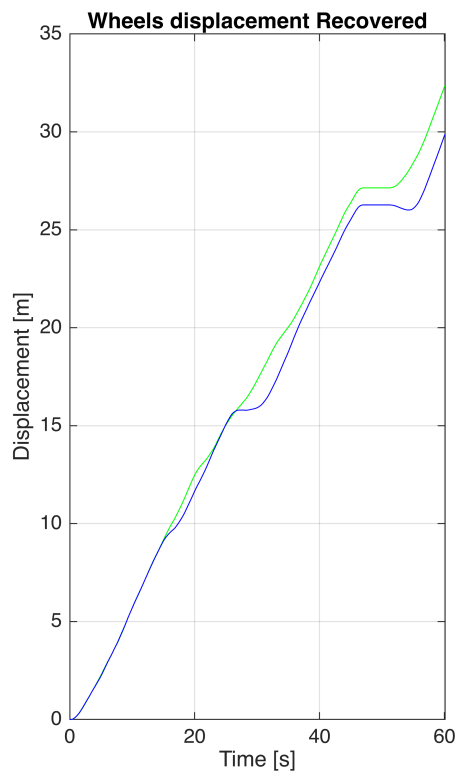
```
R_ac = 3003x1
0
0
0
0
0
0
0
0
0
0
0
...
```

```
L_ac=cumsum(L_inc,1)
```

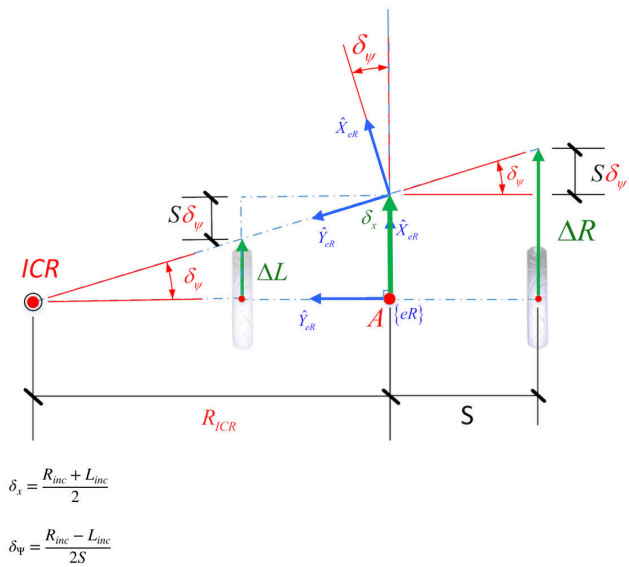
```
L_ac = 3003x1
```



```
figure
subplot(1,2,1)
plot(t(1:end-1),R_ac,'g')
hold on
plot(t(1:end-1),L_ac,'b')
xlim ([0 Tf])
grid on
title('Wheels displacement Recovered')
xlabel ('Time [s]')
ylabel ('Displacement [m]')
subplot(1,2,2)
plot(t,R_acu(:,2),'g')
hold on
plot(t,L_acu(:,2),'b')
xlim ([0 Tf])
grid on
title('Wheels displacement')
xlabel ('Time [s]')
ylabel ('Displacement [m]')
```



Odometry



Compute δ_x and δ_ψ

$$\text{delta_x} = (R_{inc} + L_{inc}) / 2$$

$$\text{delta_x} = 3003 \times 1$$

$$\begin{matrix} 0 \\ 0 \end{matrix}$$


```
Initial_pose = 4x4
    0    1.0000    0    8.6500
   -1.0000    0    0    17.2000
    0    0    1.0000    0
    0    0    0    1.0000
```

```
Pose(:, :, 1) = Initial_pose;
for i = 1:length(t)-1
    Pose(:, :, i+1) = Pose(:, :, i) * transl(delta_x(i), 0, 0) * trotx(delta_psi(i));
    Position(:, i+1) = transl(Pose(:, :, i));
    Orientation(:, i+1) = tr2rpy(Pose(:, :, i));
end
```

or using

$$\xi_{k+1} = \begin{pmatrix} p_{k+1} \\ \theta_{k+1} \end{pmatrix} = \begin{pmatrix} x_k + \delta_d c \theta_k \\ y_k + \delta_d s \theta_k \\ \theta_k + \delta_\theta \end{pmatrix}$$

```
Initial_position = transl(Initial_pose)
```

```
Initial_position = 3x1
    8.6500
   17.2000
    0
```

```
Initial_orientation = -pi/2
```

```
Initial_orientation = -1.5708
```

```
x(1) = Initial_position(1) + 0.05 % for comparing reasons we offset x by 5cm
```

```
x = 8.7000
```

```
y(1) = Initial_position(2)
```

```
y = 17.2000
```

```
o(1) = Initial_orientation
```

```
o = -1.5708
```

```
for i = 1:(length(t)-1)
    x(i+1) = x(i) + delta_x(i) * cos(o(i));
```

```

y(i+1)= y(i)+delta_x(i)*sin(o(i));
o(i+1)=o(i)+delta_psi(i);
end

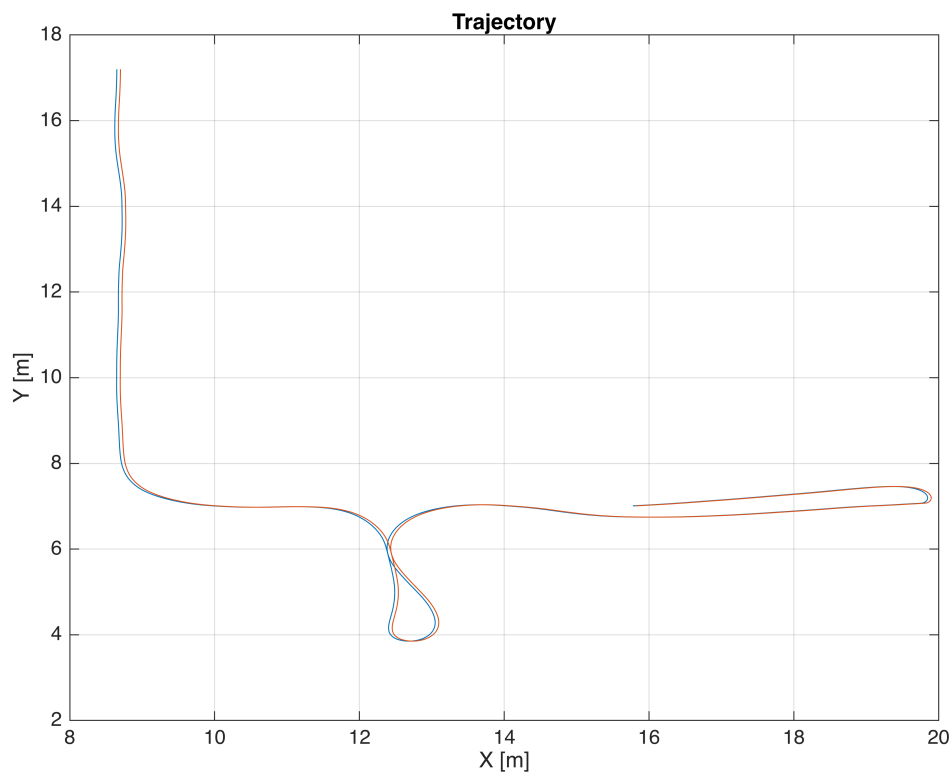
```

Displaying trajectory

```

figure
plot(Position(1,2:end),Position(2,2:end))
grid on
hold on
title('Trajectory')
xlabel ('X [m]')
ylabel ('Y [m]')
plot(x,y)

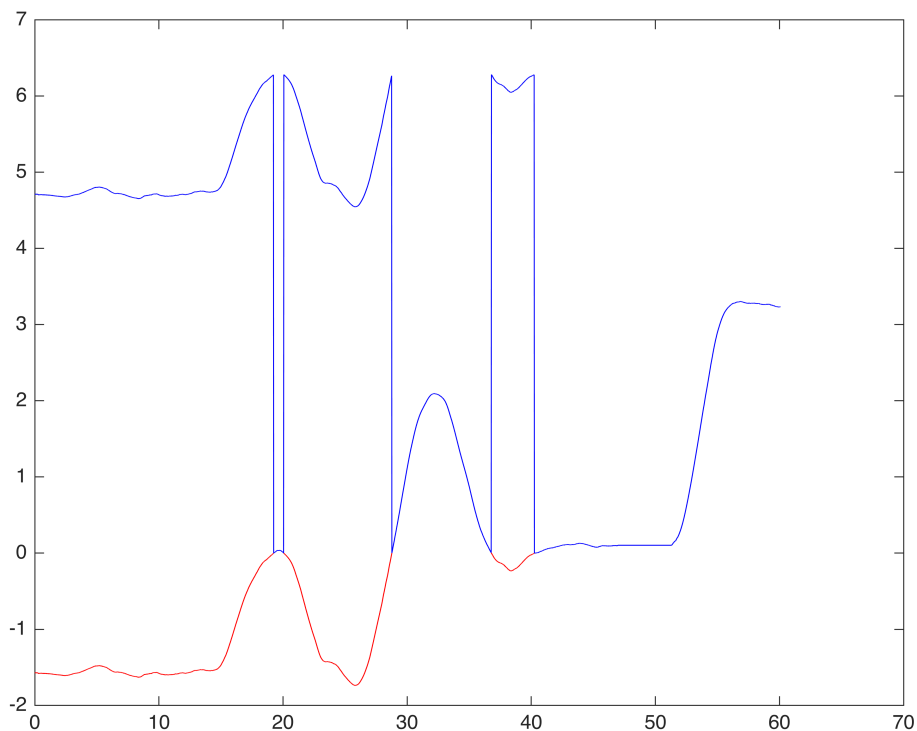
```



Understanding Orientation

Think about $\sin\left(-\frac{\pi}{2}\right) = \sin\left(\frac{3}{2}\pi\right) = \sin\left(2\pi + \frac{3}{2}\pi\right)$

```
figure
plot(t,o,'r')
hold on
plot(t,mod(o,2*pi),'b')
```



Plotting the enviroment and trajectory

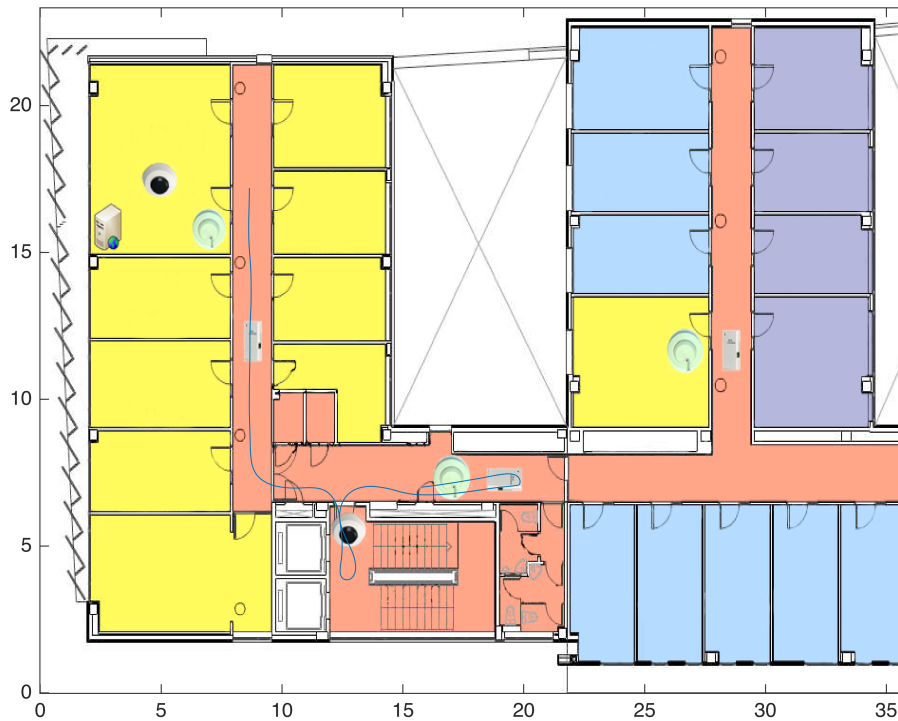
```
figure1=figure
```

```
figure1 =  
Figure (7) with properties:  
    Number: 7  
    Name: ''  
    Color: [0.9400 0.9400 0.9400]  
    Position: [440 278 560 420]  
    Units: 'pixels'
```

Show all properties

```
I=imread('Enviroment.png');  
x_ima=[0 35.9];  
y_ima=[23.31 0];  
image(I,'XData',x_ima,'YData',y_ima);  
axis xy
```

```
hold on
plot(Position(1,2:end),Position(2,2:end))
```



Uncertainty: Adding noise

Noise in the odometry displacement

```
delta_x_n=((R_inc+L_inc)/2)+randn((length(t)-1),1)*0.005
```

```
delta_x_n = 3003x1
    0.0027
    0.0092
   -0.0113
    0.0043
    0.0016
   -0.0065
   -0.0022
    0.0017
    0.0179
    0.0138
    ...
    ...
```

Noise in the odometry change of orientation

```
delta_psi_n=((R_inc-L_inc)/W)+randn((length(t)-1),1)*0.005
```

```
delta_psi_n = 3003x1
```

```

0.0077
-0.0031
-0.0035
-0.0071
-0.0005
-0.0005
-0.0016
-0.0042
-0.0083
0.0151
⋮

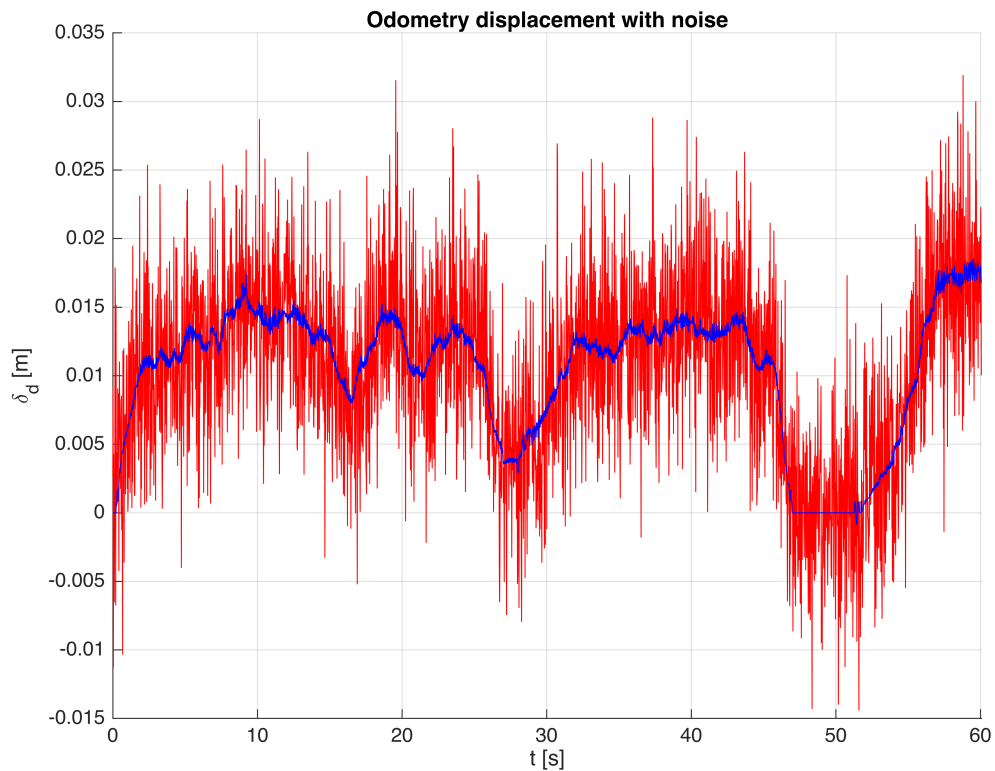
```

Displacement noise visualization

```

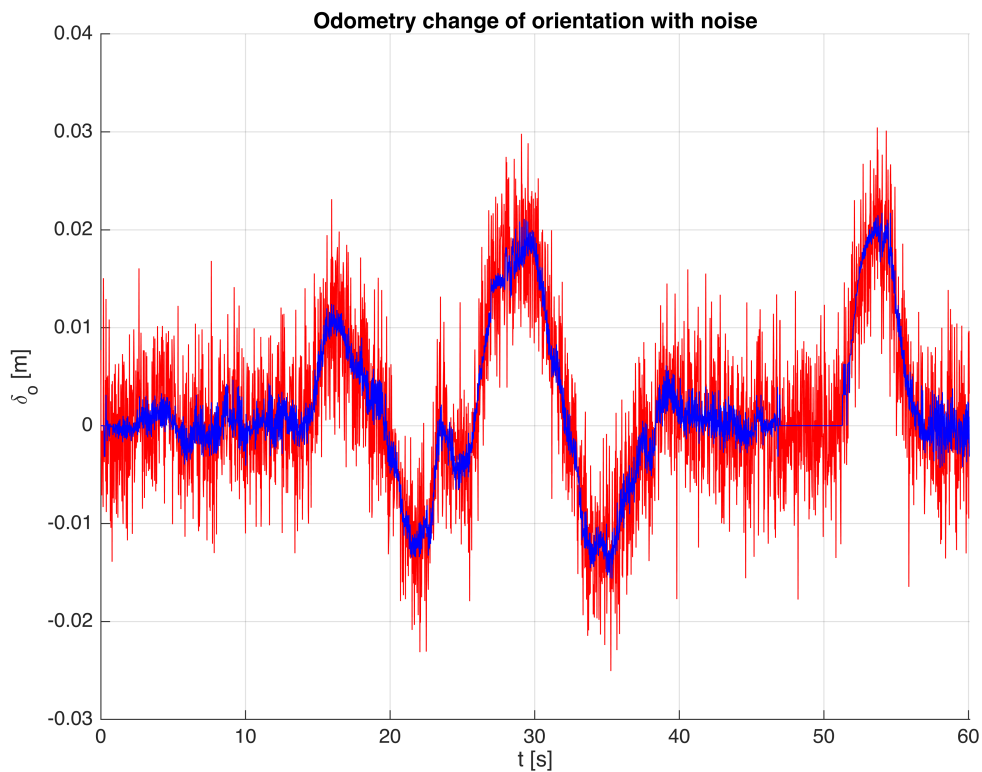
figure
hold on
plot(t(1:end-1),delta_x_n,'r')
xlim ([0 Tf])
grid on
title('Odometry displacement with noise')
xlabel ('t [s]')
ylabel ('\delta_d [m]')
plot(t(1:end-1),delta_x,'b')

```



Orientation noise visualization


```
figure
hold on
plot(t(1:end-1),delta_psi_n,'r')
xlim ([0 Tf])
grid on
title('Odometry change of orientation with noise')
xlabel ('t [s]')
ylabel ('\delta_o [m]')
plot(t(1:end-1),delta_psi,'b')
```



Pose integration with noise

```
Initial_pose=transl(8.65,17.2,0)*trotz(-pi/2)
```

```
Initial_pose = 4x4
    0    1.0000    0    8.6500
   -1.0000    0    0    17.2000
    0    0    1.0000    0
    0    0    0    1.0000
```

```
x_res2 = zeros(length(L_inc), 1)
```

```
x_res2 = 3003x1
    0
```



```
x_res2 = 3003x1
8.6500
8.6500
8.6500
0
0
0
0
0
0
0
```

⋮

```
x_res2 = 3003x1
8.6500
8.6500
8.6500
8.6500
0
0
0
0
0
0
```

⋮

```
x_res2 = 3003x1
8.6500
8.6500
8.6500
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```

⋮

```
x_res2 = 3003x1
8.6500
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```

⋮

```
x_res2 = 3003x1
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```
      :  
      :  
x_res2 = 3003x1  
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      :  
x_res2 = 3003x1  
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x_res2 = 3003x1  
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x_res2 = 3003x1  
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x_res2 = 3003x1
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```



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x_res2 = 3003x1
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x_res2 = 3003x1
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x_res2 = 3003x1
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 $x\_res2 = 3003 \times 1$ 
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x_res2 = 3003×1

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x_res2 = 3003×1

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x_res2 = 3003×1

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x_res2 = 3003×1

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x_res2 = 3003×1

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$$x_{res2} = 3003 \times 1$$


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$$x_{res2} = 3003 \times 1$$

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$$x_{res2} = 3003 \times 1$$


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$$x_{res2} = 3003 \times 1$$

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x_res2 = 3003×1

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x_res2 = 3003×1

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$$x_{res2} = 3003 \times 1$$


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 $x\_res2 = 3003 \times 1$ 
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x_res2 = 3003×1

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x_res2 = 3003×1

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x_res2 = 3003×1

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x_res2 = 3003×1

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x_res2 = 3003×1

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$$x_{res2} = 3003 \times 1$$

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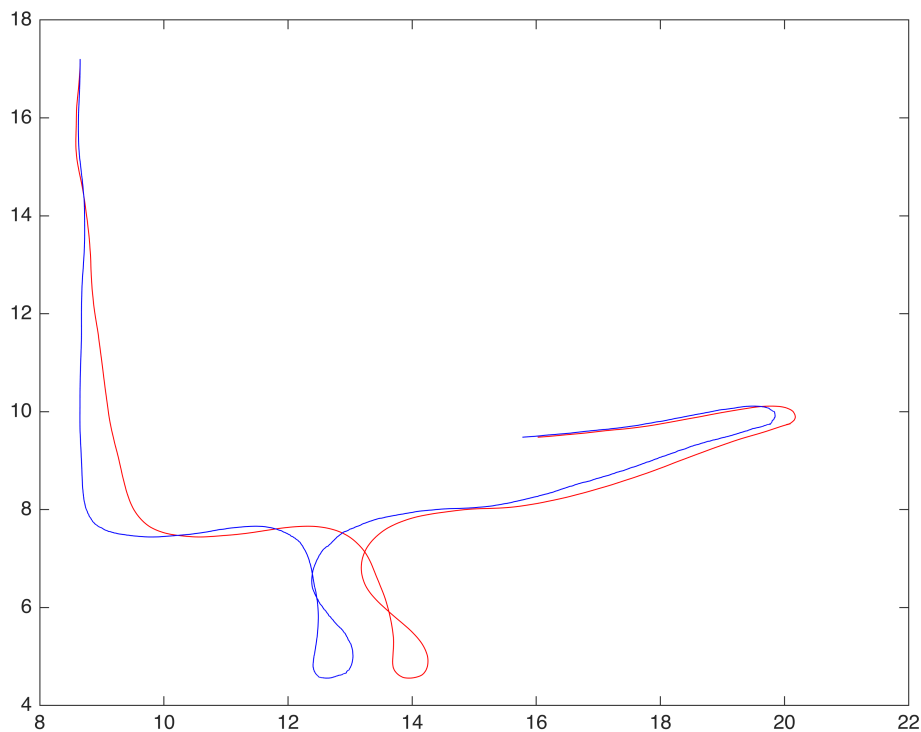
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Comparing trajectories

```

figure
plot(Position_n(1,2:end),Position_n(2,2:end),'r')
hold on
plot(Position(1,2:end),Position_n(2,2:end),'b')

```



Ellipse error

It is of interest to launch many time the dices (our trajectory with noise) and check for the last position and orientation

```
Initial_pose=transl(8.65,17.2,0)*trotz(-pi/2)
```

```
Initial_pose = 4x4
    0    1.0000    0    8.6500
   -1.0000    0    0    17.2000
    0    0    1.0000    0
    0    0    0    1.0000
```

```
Pose_n(:,:,1)=Initial_pose;
for j=1:1000
    delta_x_n=((R_inc+L_inc)/2)+randn((length(t)-1),1)*0.005;
    delta_psi_n=((R_inc-L_inc)/W)+randn((length(t)-1),1)*0.005;
    for i=1:length(t)-1

Pose_n(:,:,i+1)=Pose_n(:,:,i)*transl(delta_x_n(i),0,0)*trotz(delta_psi_n(i))
;
        Position_n(:,i+1)=transl(Pose_n(:,:,i));
        Orientation_n(:,i+1)=tr2rpy(Pose_n(:,:,i));
    end
    Positions_n(:,j)=Position_n(:,end);
    Orientations_n(:,j)=Orientation_n(:,end);
end
```

Visualizing the experimental ellipse error of final position

```
figure  
scatter(Positions_n(1,:),Positions_n(2,:))
```

