
Drifter Data Matlab 07

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Author Details

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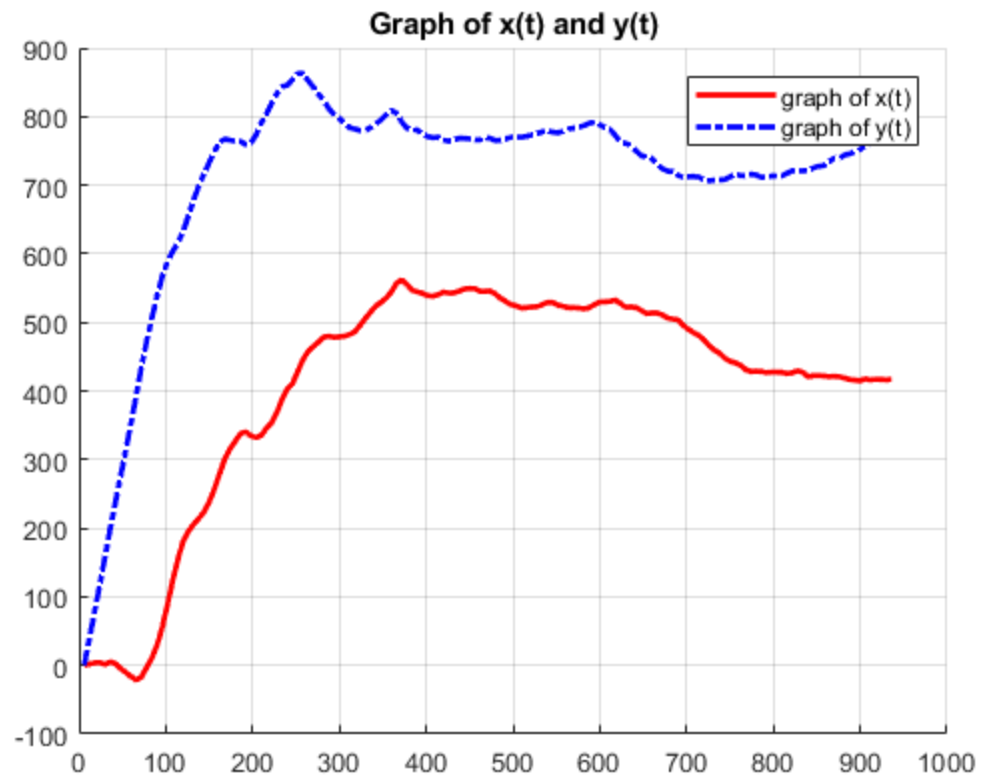
Initialization

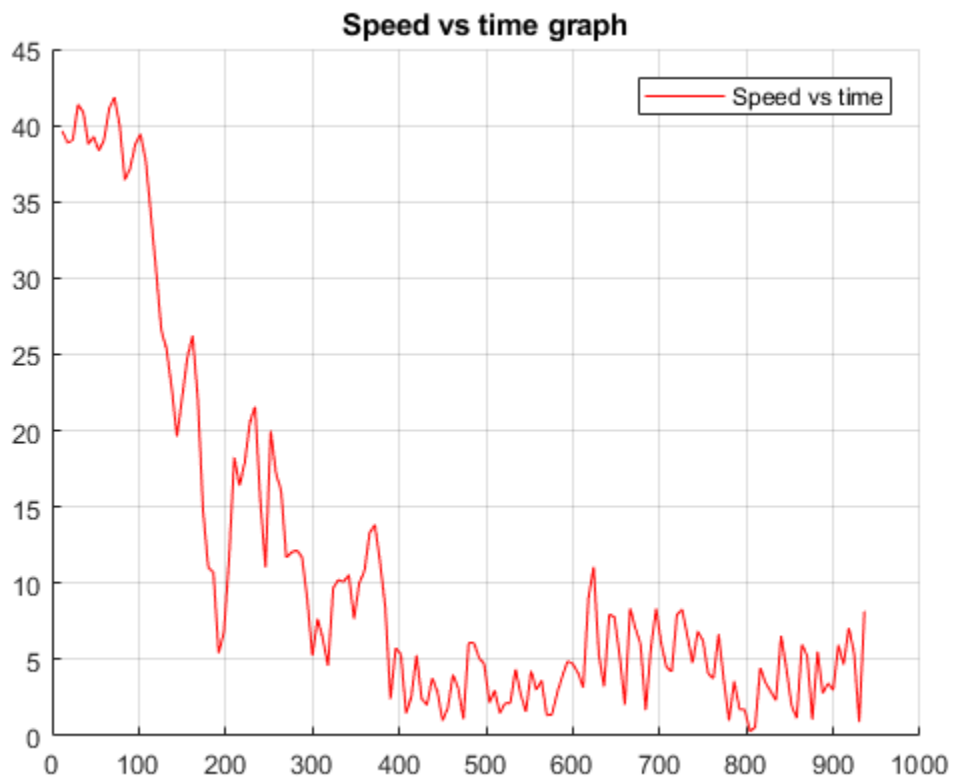
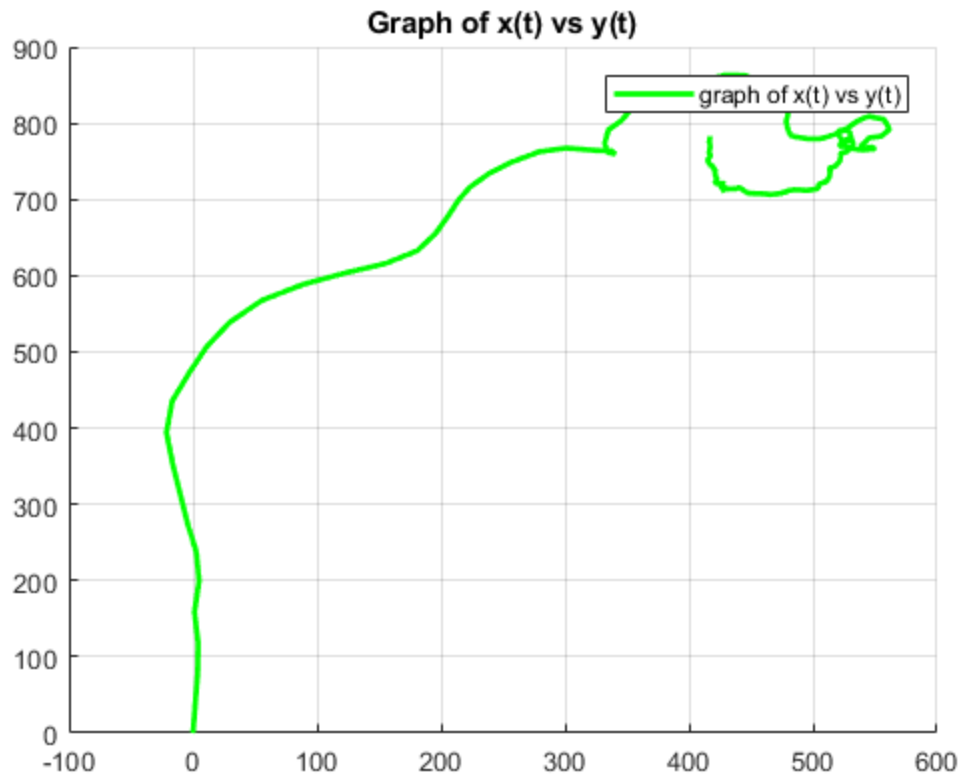
```
load("drifterData");  
% end section
```

Work

```
figure;  
title("Graph of x(t) and y(t)");  
hold on;  
plot(drifter2time, drifter2x, '-r', 'LineWidth', 2);  
plot(drifter2time, drifter2y, '-.b', 'Linewidth', 2);  
grid on;  
hold off;  
legend("graph of x(t)", "graph of y(t)");  
  
figure;  
hold on;  
plot(drifter2x, drifter2y, '-g', 'Linewidth', 2);  
grid on;  
hold off;  
title("Graph of x(t) vs y(t)");  
legend("graph of x(t) vs y(t)");  
hold off;  
  
Dx = drifter2x(2:1:end) - drifter2x(1:1:end-1);  
Dy = drifter2y(2:1:end) - drifter2y(1:1:end-1);  
Ds = sqrt(Dx.^2 + Dy.^2);  
DsArray = Ds./6;  
speed = sum(Ds);
```

```
figure;  
hold on;  
newdrifter2time = drifter2time(2:1:end);  
plot(newdrifter2time, Ds, '-r' );  
legend("Speed vs time");  
title("Speed vs time graph");  
grid on;  
hold off;  
% end section
```





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