LaTeX Lab Report Template
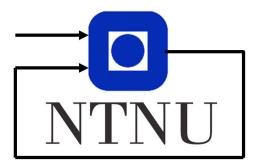
Group 42
Martin Albertsen Brandt
Martin Eek Gerhardsen

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Department of Engineering Cybernetics

Abstract

This report will highlight and discuss the results of the three graded assignments for the course TTK4250 Sensor Fusion. The code implemented was tested and tuned for both simulated and real datasets.

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1 Introduction

2 Graded Assignment 1

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5 Conclusion

This does not have to be long, but try to write a few reasonable closing remarks.

A MATLAB Code

This section should contain your MATLAB code. DO NOT attach files posted online (that you didn't write). Note that the method used to input code below does not look as pretty when the lines are too long.

A.1 plot_constraint.m

```matlab
% Plot a figure with some Latex in the labels
l = linspace(70,170)*pi/180;
a = 0.2;
b = 20;
l_b = 2*pi/3;

e = a*exp(-b*(l-l_b).^2);

l_deg = l*180/pi;
e_deg = e*180/pi;

figure(1)
plot(l_deg,e_deg, 'LineWidth', 2)

handles(1) = xlabel('$\lambda$/degrees');
handles(2) = ylabel('$e$/degrees');
set(handles, 'Interpreter', 'Latex');
```

B Simulink Diagrams

This section should contain your Simulink diagrams. Just like the plots, these should be in vector format, like in Figure 1. Make them tidy enough to understand.

B.1 A Simulink Diagram

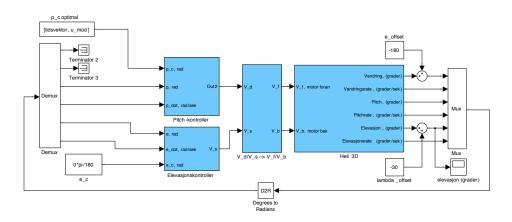Figure 1 shows a Simulink diagram. You can use the `print_simulink.m` function, included in the source code repository for this document, to export a Simulink model to EPS.

Figure 1: A Simulink diagram.