

OPERATIONS RESEARCH AND FINANCIAL
ENGINEERING-INSPIRED THESIS: A THESIS
ABOUT OPERATIONS RESEARCH AND
FINANCIAL ENGINEERING

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Abstract

Acknowledgements

To me

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Chapter 1

Introduction

See Kaelbling et al. (1996) and Tsitsiklis (1994) for more information.

This is the introduction of my sample thesis. Let me just state that this is a very, very limited introduction to \LaTeX , and I can not do justice to it through the next few pages.

I recommend reading this .pdf file along with the .tex file open on the side so that you can compare the pure ASCII text and the final result after compilation.

1.1 A Different Word Processing System

I highly recommend the booklet “The Not So Short Introduction to $\text{\LaTeX} 2_{\epsilon}$ ” which is free and very well-written. It is available on:

`http://tobi.oetiker.ch/lshort/lshort.pdf`.

I refer you to the introduction there.

Appendix A

Code

```
% Question 1
warning('off'); % To protect our nerves
p = 0.05;
K_E = 5;
K_J = 10;
K_S = 35;

tmp1 = [];
for i = 0:(K_E-1)
    tmp1(i+1) = (K_E - i) * binopdf(i,50,p);
end
C_E = sum(tmp1)

tmp2 = [];
for i = (K_E+1):50
    tmp2(i-K_E) = (i-K_E) * binopdf(i,50,p);
end
```

```

tmp3 = [];
for i = (K_E + K_J +1):50
    tmp3(i- K_E - K_J) = (i - K_E - K_J) * binopdf(i,50,p);
end
C_J = K_J - sum(tmp2) +sum(tmp3)

C_S = K_S - sum(tmp3)

% Sanity check
C_E + C_J + C_S

```

Bibliography

Kaelbling, L., Littman, M., and Moore, A. (1996). Reinforcement Learning: A Survey. *arXiv preprint cs/9605103*, 4:237–285.

Tsitsiklis, J. (1994). Asynchronous Stochastic Approximation and Q-Learning. *Machine Learning*, 202:185–202.