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UNIVERSITY of OULU

FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

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## **ABSTRACT**

**This is a sample abstract.**

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## **TIIVISTELMÄ**

**Esimerkkitiivistelmä**

**Avainsanat: esimerkki, sanoja**

**TABLE OF CONTENTS**

**ABSTRACT**

**TIIVISTELMÄ**

**TABLE OF CONTENTS**

**FOREWORD**

**ABBREVIATIONS**

<b>1. INTRODUCTION</b>	<b>6</b>
1.1. Sample section with a table reference . . . . .	6
1.2. Changelog . . . . .	6
1.2.1. Sample subsection with a figure reference . . . . .	7
<b>2. IMPLEMENTING SOMETHING</b>	<b>8</b>
<b>3. TESTING SOMETHING</b>	<b>9</b>
<b>4. DISCUSSION</b>	<b>10</b>
<b>5. CONCLUSION</b>	<b>11</b>
<b>6. REFERENCES</b>	<b>12</b>

## FOREWORD

This L<sup>A</sup>T<sub>E</sub>X-template has been used by various people at department since the late 1990's, and has slowly improved over time. It is still somewhat rough at the edges, but hopefully will be helpful in reducing some of the pain involved in writing a diploma thesis.

Contributors to the template include Mika Korhonen (original author), Pekka Pietikäinen, Christian Wieser and Teemu Tokola. If you make any improvements to this template, please contact [ouspg@ee.oulu.fi](mailto:ouspg@ee.oulu.fi), and we will try to include them in further revisions.

The template was updated during the summer of 2013 by Juha Kylmänen.

## **ABBREVIATIONS**

LAN	local area network
IP	Internet protocol
GUI	graphical user interface
HTTP	hypertext transfer protocol
UDP	user datagram protocol
CPU	central processing unit
RAM	random-access memory
FTP	file transfer protocol
WWW	world wide web
API	application programming interface
NAT	network address translation
CLI	command line interface
DPI	dots per inch

## 1. INTRODUCTION

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### 1.1. Sample section with a table reference

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Table 1. Sample table

Sample	table
Sample	table
Sample	table

### 1.2. Changelog

- Changed `\chapter's \newpage` to `\clearpage` to prevent floats from wandering to the beginning of the next chapter
- Added **[hyphens]** to the url package to prevent margin overflow with long urls
- Added **multirow** package to make multirow and multicolumns possible
- Added some helpful source code comments
- Makefile for pdf<sub>l</sub>atex and bib<sub>t</sub>ex to automate pdf compilation
- Abbreviations are autosorted by the Makefile
- Added a bit of extra padding to the sample table

### 1.2.1. Sample subsection with a figure reference

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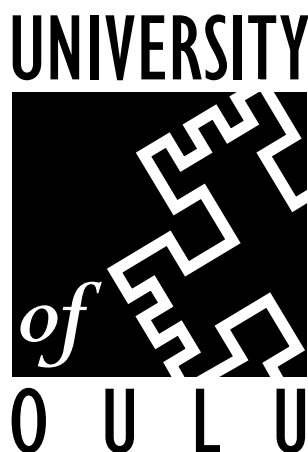


Figure 1. A picture

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<sup>1</sup>Sample footnote



## **2. IMPLEMENTING SOMETHING**

Your implementation.

### **3. TESTING SOMETHING**

Your testing.

## **4. DISCUSSION**

Your discussion.

## **5. CONCLUSION**

The best thesis evar.

## 6. REFERENCES

- [1] Cheswick W.R., Bellovin S.M. & Rubin A.D. (2003) Firewalls and Internet security: repelling the wily hacker. Addison-Wesley, Erewon, NC, second ed.
- [2] Kamara S., Fahmy S., Schultz E., Kerschbaum F. & Frantzen M. (2003) Analysis of Vulnerabilities in Internet Firewalls. *Computers and Security* 22, pp. 214–232.
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