國立臺灣大學電機資訊學院電機工程學系

碩士論文

Department of Electrical Engineering

College of Electrical Engineering and Computer Science

National Taiwan University

Master's Thesis

論文中文標題

Thesis English Title

姓名

Name

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國立臺灣大學碩士學位論文
口試委員會審定書
MASTER'S THESIS ACCEPTANCE CERTIFICATE
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論文標題
Thesis Title

本論文係 OOO (RXXXXXXXXX) 在國立臺灣大學電機工程學系資訊安全碩士班完成之碩士學位論文，於民國114年11月19日承下列考試委員審查通過及口試及格，特此證明。

The undersigned, appointed by the Department of Electrical Engineering : Master Program of Cyber-security on 19/11/2025 have examined a Master's thesis entitled above presented by [NAME] (RXXXXXX) candidate and hereby certify that it is worthy of acceptance.

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摘要

中文摘要內容

關鍵字：關鍵字 1、關鍵字 2、關鍵字 3

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Abstract

English abstract content

Keywords: keyword 1, keyword 2, keyword 3

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Contents

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List of Tables

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Chapter 1 Introduction

1.1 What is this Template About?

This is a LaTeX template for NTU (National Taiwan University) master's thesis, specifically designed for the LaDS (Laboratory of Dependable Systems). It adheres to the NTU thesis formatting guidelines and incorporates features commonly used in LaDS research works.

1.2 Example of References

Here is an example of a reference citation [1]. To add references, please edit the 'back/references.bib' file.

1.3 Example of Figures

An example of a figure is shown in Figure 1.1.

It is recommended to store all figures in the 'figures/' folder. And with the format of PDF.

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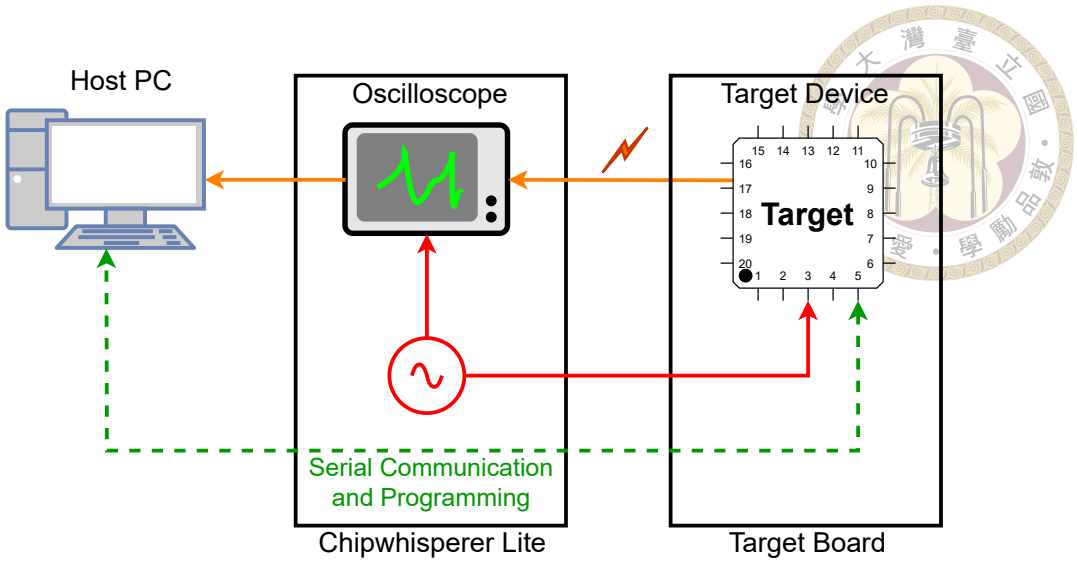

Figure 1.1: The communication scheme and hardware setup.

1.4 Example of Tables

An example of a table is shown in Table 1.1.

Table 1.1: Comparison between TVLA and DDR-LA (Proposed Method).

	TVLA	**DDR-LA (Proposed Method)**
(Power Trace) Data Processing	None	Uses a deep learning model
Statistical Test	Welch's t-test (on raw data)	Welch's t-test (on reduced data)
Capability	Detects simple, univariate leakage	Detects higher-order & multivariate leakage

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Chapter 2 Background

2.1 Chapter 2 Section 1

Chapter 2 content

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References

[1] E. Brier, C. Clavier, and F. Olivier. Correlation power analysis with a leakage model. In International workshop on cryptographic hardware and embedded systems, pages 16–29. Springer, 2004.

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Appendix A — Mathematical Proofs

A.1 Proof of something

appendix 1 content

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