Università degli Studi di Verona
Department of Computer Science

Master's Degree in
COMPUTER SCIENCE AND ENGINEERING

Master Thesis

BLACKBOX APPROACH TO CPS REVERSE ENGINEERING

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"Gallina vecchia fa buon brodo"
(Valentino Rossi)

Abstract

Bla bla bla

Contents

Chapter 1

Introduction

L OREM ipsum dolor bla bla bla. Ma dove metto l'abstract? Prova di interlinea che direi posso anche andare bene, ma bisogna poi vedere il tutto come si incastra alla fine, in modo da ottenere un bel risultato alla vista.

1.1 Contibution

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

1.2 Outline

Why do we use it? It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout.

The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

Where does it come from? Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of the word in classical literature, discovered the undoubtable source. Lorem Ipsum comes from sections 1.10.32 and 1.10.33 of "de Finibus Bonorum et Malorum" (The Extremes of Good and Evil) by Cicero, written in 45 BC. This book is a treatise on the theory of ethics, very popular during the Renaissance. The first line of Lorem Ipsum, "Lorem ipsum dolor sit amet..", comes from a line in section 1.10.32.

The standard chunk of Lorem Ipsum used since the 1500s is reproduced below for those interested. Sections 1.10.32 and 1.10.33 from "de Finibus Bonorum et Malorum" by Cicero are also reproduced in their exact original form, accompanied by English versions from the 1914 translation by H. Rackham.

Chapter 2

Background

Test cite [1]

test cite 2 [2]
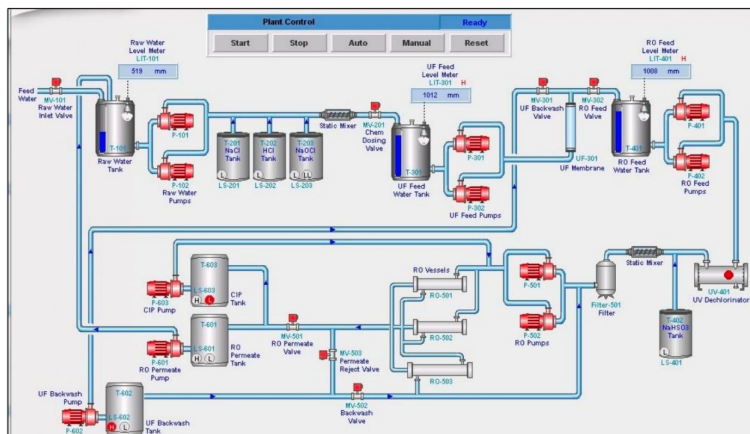
test cite 3 [3]

test cite 3 [4]

Figure 2.1: SWaT schema

Col1	Col2	Col2	Col3
1	6	87837	787
2	7	78	5415
3	545	778	7507
4	545	18744	7560
5	88	788	6344

Table 2.1: This is the caption for the first table.

Chapter 3

Related work

Chapter 4

State of the Art

4.1 Reverse Engineering of Industrial Physical Processes

Chapter 5

Proposal to Improve State of the Art

Chapter 6

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Chapter 7

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8.1 Discussions

8.2 Guidelines

8.3 Future work

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References

[1] M. Ceccato, Y. Driouich, R. Lanotte, M. Lucchese, and M. Merro. "Towards Reverse Engineering of Industrial Physical Processes". In: CPS4CIP@ESORICSAt 2022 (Copenhagen, Denmark, Sept. 30, 2022). 2022.

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[4] C. Feng, V.R. Palleti, A. Mathur, and D. Chana. "A Sysematic Framework to Generate Invariants for Anomaly Detection in Industrial Control Systems". In: NDSS Symposium 2019 (San Diego, CA, USA, Feb. 24–27, 2019). 2019. DOI: https://dx.doi.org/10.14722/ndss.2019.23265.