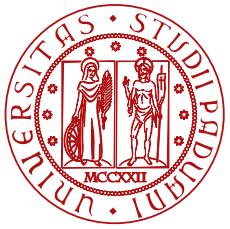

Università degli Studi di Padova

Dipartimento di Ingegneria dell'Informazione

Bachelor Thesis in Computer Engineering

An interesting title for the thesis

Bachelor Candidate

Alberto Pasqualetto

Student ID 2000162

Supervisor

Prof. Sergio Canazza

University of Padova

Academic Year
2022/2023

To my parents
and friends

Abstract

Sommario

Contents

List of Figures

List of Tables

List of Algorithms

List of Code Snippets

List of Acronyms

CSV Comma Separated Values

1 Introduction

Random citation [1].
Random footnote.[1]

1.1 A section

Example of list

- Item 1
- Item 2

1.1.1 A subsection

Example of acronym

Comma Separated Values (CSV)

Example of enumeration

1. Item 1
2. Item 2

[1] https://lucamartinelli.eu.org

Example of quote

> *Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.*

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

2

Background

Algorithm 1 An algorithm with caption

Require: $n \geq 0$
Ensure: $y = x^n$
  $y \leftarrow 1$
  $X \leftarrow x$
  $N \leftarrow n$
  while $N \neq 0$ **do**
    if N is even **then**
      $X \leftarrow X \times X$
      $N \leftarrow \frac{N}{2}$ {This is a comment}
    else if N is odd **then**
      $y \leftarrow y \times X$
      $N \leftarrow N - 1$
    end if
  end while

$$e^{j\pi} + 1 = 0 \tag{2.1}$$

3 Analysis

3.1 A section

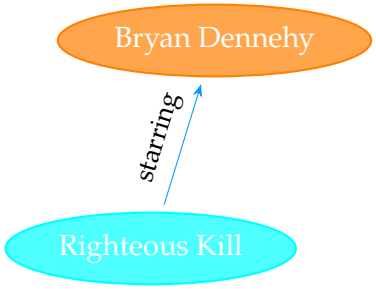

Figure 3.1: Image created with TikZ

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

```
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
```

```
    VT = np.zeros((n*m,1), int)  #dummy variable

    test = "String"

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1;
                VT[(i)*n + c[k]] = 1;
                VT[(j)*n + r[k]] = 1;
                VT[(j)*n + c[k]] = 1;

                if M is None:
                    M = np.copy(VT)
                else:
                    M = np.concatenate((M, VT), 1)

                VT = np.zeros((n*m,1), int)

    return M
```

Code 3.1: Code snippet example

4

Conclusions and Future Works

A	**B**
C	D
E	F
G	H

Table 4.1: Table example

References

[1] Marco Alecci et al. “Development of an IR System for Argument Search.” In: *CLEF (Working Notes)*. 2021, pp. 2302–2318.

Acknowledgments