

FIRSTNAME LASTNAME FIRSTNAME LASTNAME

YOUR TITLE HERE

Três de Maio 2019

FIRSTNAME LASTNAME FIRSTNAME LASTNAME

YOUR TITLE HERE

Undergraduate Thesis of Bachelor of Information Systems - Três de Maio Faculty - SETREM

Advisor:

Dr. FirstName LastName

Três de Maio 2019

TERMO DE APROVAÇÃO

NAME NAME

TITLE HERE

Relatório aprovado como requisito parcial para obtenção do título de **Bacharel em Sistemas de Informação** concedido pela Faculdade de Sistemas de Informação da Sociedade Educacional Três de Maio, pela seguinte Banca examinadora:

Orientador: Prof. Name, Dr.

Faculdade de Sistemas de Informação da SETREM

Name, Dr.

Faculdade de Sistemas de Informação da SETREM

Name, M.Sc.

Faculdade de Sistemas de Informação da SETREM

Profa. Vera Lúcia Lorenset Benedetti, M.Sc. Coordenação do Curso Bacharelado em Sistemas de Informação Faculdade de Sistemas de Informação da SETREM.

ABSTRACT

The abstract goes here ...

Keywords: .

RESUMO

O resumo vai aqui...

Palavras-Chave: .

LIST OF FIGURES

Figure 1:	Simple diagram	. 14

LIST OF TABLES

Table	1:	This is a simple example to build a table	15
-------	----	---	----

LIST OF ABBREVIATIONS AND ACRONYMS

ACM Association for Computing Machinery

AWS Amazon Web Services

IBGE Brazilian Institute of Geography and Statistics

IEEE Institute of Electrical and Electronics Engineers

IoT Internet of Things

CONTENTS

INTROE	DUCTION	10
1 RESE	EARCH PLAN	12
1.1	THEME	12
1.1.1	Theme Delimitation	12
1.2	GENERAL OBJECTIVE	12
1.2.1	Specific Objectives	12
1.3	JUSTIFICATION	13
1.4	PROBLEM	13
1.5	HYPOTHESIS	13
1.6	METHODOLOGY	13
1.6.1	Approach	13
1.6.2	Procedures	13
1.6.3	Tecniques	13
1.6.4	Hyphoteses Validation	13
1.7	BUDGET	13
1.8	SCHEDULE OF ACTIVITIES	13
2 BACk	KGROUND	14
2.1	BUSINESS FIELD	14
2.2	FUNDAMENTALS OF COMPUTING FOR THE STUDIED AREA	14
2.3	RELATED WORK	14
3 RESU	JLTS	16
3.1	HISTORY AND PRESENTAION OF THE ORGANIZATION	16
3.2	DEVELOPEMENTS	16
3.3	EXPERIMENTS	17
CONCL	USIONS	18
REFERI	ENCES	19

INTRODUCTION

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

LARCC (2019)

According to Vogel and Griebler et al. (2017), bla bla ...

Some authors prefere to include figures and others not (GRIEBLER; VO-GEL; MARON; MALISZEWSKI; SCHEPKE; FERNANDES, 2018).

There are some undergraduate thesis developed at LARCC (ROCKEN-BACH; ANDERLE, 2017; MALISZEWSKI; BAUM, 2017; HENTGES; THOMé, 2013; STEIN, 2018)

1 RESEARCH PLAN

1.1 THEME

1.1.1 Theme Delimitation

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

1.2 GENERAL OBJECTIVE

1.2.1 Specific Objectives

- aaaaaaaaaaaaaaa
- 2. bbbbbbbbbbbbbb

- 3. CCCCCCCCC
- 4. DDDDDDDDDDD
- 5. FFFFFFFFFF
- 6. GGGGGGG
- 1.3 JUSTIFICATION
- 1.4 PROBLEM
- 1.5 HYPOTHESIS
 - 1. A is equal to C
 - 2. D is bigger than G
- 1.6 METHODOLOGY
- 1.6.1 Approach
- 1.6.2 Procedures
- 1.6.3 Tecniques
- 1.6.4 Hyphoteses Validation
- 1.7 BUDGET
- 1.8 SCHEDULE OF ACTIVITIES

2 BACKGROUND

2.1 BUSINESS FIELD

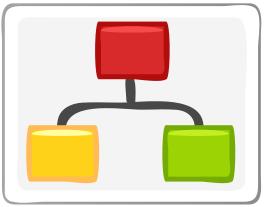
2.2 FUNDAMENTALS OF COMPUTING FOR THE STUDIED AREA

Equation 2.1 is an example of an equation in Latex:

$$h_t = f(W^{(hh)}h_{t-1} + W^{(hx)}x_t). (2.1)$$

Figure 1 is an example of including a figure.

Figure 1: Simple diagram



Source: Extracted from LARCC (2019).

Griebler and Hoffmann et al. (2018)

McCool, Robison and Reinders (2012)

2.3 RELATED WORK

Table 1 present an example of a Latex table.

Table 1: This is a simple example to build a table.

Α	В	N	T
Χ	у	W	G

3 RESULTS

The experiments and developement goes here...

3.1 HISTORY AND PRESENTAION OF THE ORGANIZATION

3.2 DEVELOPEMENTS

Listing 1 presents a Python code example.

Listing 1: Python code example.

```
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
      #compute the bitwise xor matrix
      M1 = bitxormatrix (genl1)
      M2 = np.triu(bitxormatrix(genl2),1)
11
12
      for i in range (m-1):
13
          for j in range (i+1, m):
14
               [r,c] = np.where(M2 == M1[i,j])
15
               for k in range(len(r)):
16
                   VT[(i)*n + r[k]] = 1;
                   VT[(i)*n + c[k]] = 1;
18
                   VT[(j)*n + r[k]] = 1;
19
                   VT[(j)*n + c[k]] = 1;
20
21
                   if M is None:
                       M = np.copy(VT)
23
                   else:
24
                       M = np.concatenate((M, VT), 1)
25
26
                   VT = np.zeros((n*m,1), int)
27
28
      return M
```

Listing 2 presents a C++ code example.

Listing 2: C++ code example.

```
#include < stdio.h>
#include < iostream >
// A comment
int main(void)

printf("Hello World\n");
return 0;
}
```

3.3 EXPERIMENTS

CONCLUSIONS

Conclusions goes here ...

REFERENCES

- GRIEBLER, D.; HOFFMANN, R. B.; DANELUTTO, M.; FERNANDES, L. G. 2018. **High-Level and Productive Stream Parallelism for Dedup, Ferret, and Bzip2**. International Journal of Parallel Programming, Switzerland, v.47, n.2, p.1–19.
- GRIEBLER, D.; VOGEL, A.; MARON, C. A. F.; MALISZEWSKI, A. M.; SCHEPKE, C.; FERNANDES, L. G. 2018. Performance of Data Mining, Media, and Financial Applications under Private Cloud Conditions. In: IEEE SYMPOSIUM ON COMPUTERS AND COMMUNICATIONS (ISCC), 23., Natal, Brazil. Proceedings... IEEE.
- HENTGES, E.; THOMé, B. 2013. **Análise e Comparação de Ferramentas Open Source de Computação em Nuvem para o Modelo de Serviço laaS**. Três de Maio, RS, Brazil.
- LARCC. 2019. Laboratory of Advanced Researches for Cloud Computing (Home Page). Access date: 15 February, Available on: http://larcc.setrem.com.br.
- MALISZEWSKI, A. M.; BAUM, W. 2017. Performance Characterizations of laaS

 Private Clouds for Scientific and Enterprise Workloads. Três de Maio, RS,

 Brazil.
- MCCOOL, M.; ROBISON, A. D.; REINDERS, J. 2012. **Structured Parallel Programming: patterns for efficient computation**. MA, USA: Morgan Kaufmann.

- ROCKENBACH, D. A.; ANDERLE, N. 2017. **Análise e Avaliação Comparativa do Desempenho de Bancos de Dados NoSQL**. Três de Maio, RS, Brazil.
- STEIN, C. 2018. **Programação Paralela para GPU em Aplicações de Processamento Stream**. Três de Maio, RS, Brazil.
- VOGEL, A.; GRIEBLER, D.; SCHEPKE, C.; FERNANDES, L. G. 2017. An Intra-Cloud Networking Performance Evaluation on CloudStack Environment. In: EUROMICRO INTERNATIONAL CONFERENCE ON PARALLEL, DISTRIBUTED AND NETWORK-BASED PROCESSING (PDP), 25., St. Petersburg, Russia. Proceedings... IEEE. p.5.