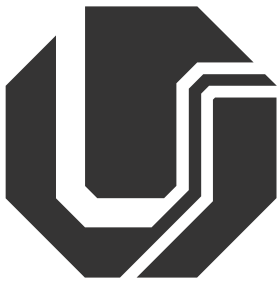
FEDERAL UNIVERSITY OF UBERLÂNDIA

FACULTY OF ELECTRICAL ENGINEERING

UNDERGRADUATE PROGRAM IN BIOMEDICAL ENGINEERING



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TITLE

UBERLÂNDIA, MG

2026

AUTHOR

TITLE

... presented to the Faculty of Electrical Engineering of the Federal University of Uberlândia as partial requirement for obtaining the degree of ... in Biomedical Engineering.

Area: Area

Supervisior: Supervisior

UBERLÂNDIA, MG

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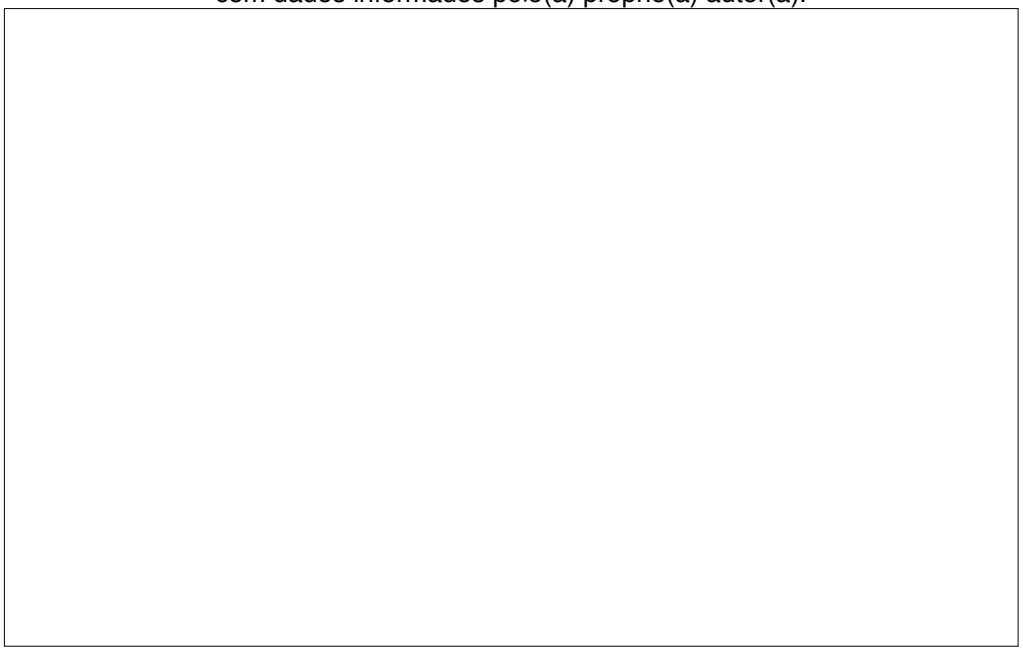

Ata da Defesa

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ACKNOWLEDGEMENTS

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ABSTRACT

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Keywords: Keyword 1; Keyword 2; Keyword 3; Keyword 4; Keyword 5.

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List of Abbreviations and Acronyms

ApEn Approximate Entropy

IMU Inertial Measurement Unit

IPMDS International Parkinson and Movement Disorder Society

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1

Introduction

1.1 Problem formulation

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1.2 Relevance of the thesis

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1.3 The object of the research

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1.4 The aim of the thesis

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1.5 The objectives of the thesis

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1.6 Research methodology

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1.7 Scientific novelty of the thesis

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1.8 Practical value of the research findings

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1.9 Approval of the research findings

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1.10 Structure of the dissertation

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2

Materials and Methods

2.1 Listed Items

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2.2 Numbered Items

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2.3 Nested enumeration numbering

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   i. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

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2. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.4 Equations

Approximate Entropy (ApEn) is described in Equation 2.1. Another example of an equation in LaTeXis Equation 2.2.

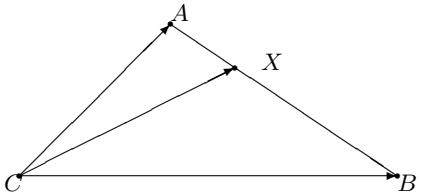
$$ApEn(m,r,N) = \begin{cases} \phi^m(r) - \phi^{m+1}(r), & \forall\ m \leq 0 \\ -\phi^1(r), & m = 0 \end{cases}, \tag{2.1}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}. \tag{2.2}$$

LaTeXprovides a wide range of symbols for mathematical notation, including Greek letters (Table 2.1), operators (Table 2.2), and special characters. These symbols are typically used within **math mode**, which can be activated using dollar signs (`$ ... $`) for inline expressions or double dollar signs (`$$ ... $$`) or environments like `\[ ... \]` for displayed equations.

2.5 Pictures

You can create geometric representations in LaTeX.



2.6 Code

You can insert scripts into your text.

Symbol	Command	Symbol	Command
α	\alpha	β	\beta
γ	\gamma	δ	\delta
ϵ	\epsilon	ζ	\zeta
η	\eta	θ	\theta
ι	\iota	κ	\kappa
λ	\lambda	μ	\mu
ν	\nu	ξ	\xi
o (omicron)	o	π	\pi
ρ	\rho	σ	\sigma
τ	\tau	υ	\upsilon
ϕ	\phi	χ	\chi
ψ	\psi	ω	\omega
Γ	\Gamma	Δ	\Delta
Θ	\Theta	Λ	\Lambda
Ξ	\Xi	Π	\Pi
Σ	\Sigma	Υ	\Upsilon
Φ	\Phi	Ψ	\Psi
Ω	\Omega		

Table 2.1 – Greek letters and their corresponding LaTeXcommands.

2.6.1 R

The code below illustrates a code snippet in the R language (1).

```r
# loading R package
library(ggplot2)

# data visualization
ggplot(mpg, aes(displ, hwy, colour = class)) +
  geom_point()
```

2.6.2 Python

```python
  # libraries:
  import numpy as np
  import pandas as pd
  import matplotlib.pyplot as plt
  # creating the variables:
  x = np.linspace(0,100)
  y = x**2
  # plotting
```

Symbol	Command	Symbol	Command
$\times$	\times	$\div$	\div
$\pm$	\pm	$\mp$	\mp
$\cdot$	\cdot	$*$	\ast
$\leq$	\leq	$\geq$	\geq
$\neq$	\neq	$\approx$	\approx
$\equiv$	\equiv	$\propto$	\propto
∞	\infty	∂	\partial
∇	\nabla	$\forall$	\forall
$\exists$	\exists	$\nexists$	\nexists
$\in$	\in	$\notin$	\notin
$\subseteq$	\subseteq	$\supseteq$	\supseteq
$\subset$	\subset	$\supset$	\supset
$\cup$	\cup	$\cap$	\cap
$\Rightarrow$	\Rightarrow	$\Leftrightarrow$	\Leftrightarrow
$\uparrow$	\uparrow	$\downarrow$	\downarrow

Table 2.2 – Common mathematical symbols and their corresponding LaTeX commands.

```
  plt.plot(x, y, '-b')
```

2.6.3 SQL

```
  SELECT
     id,
     name,
     age,
     sex,
     disease
  FROM participants
  ORDER BY 1000;
```

2.6.4 C

```
#include <stdio.h>

int main() {
    printf("Hello, world!\n");
    return 0;
}
```

2.6.5 Matlab

```
% sampling frequency (Hz)
fs = 1000;

% time vector (2 seconds)
t = 0:1/fs:2;

% signal frequency (Hz)
f_signal = 10;

% sinusoidal signal
signal = sin(2*pi*f_signal*t);

% additive white Gaussian noise
noise = 0.4 * randn(size(t));

% resulting noisy signal
x = signal + noise;
```

2.7 Algorithms

Algorithm 1 is an example.

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

2.8 References

This template uses the ABNT standards to present the references. You can use the number style or the author-date style.

3

Results

3.1 Figures

Figure 3.1 illustrates an example of a LaTeXfigure.

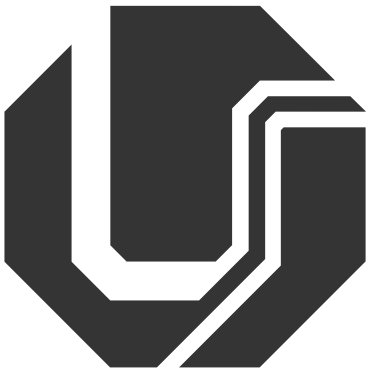
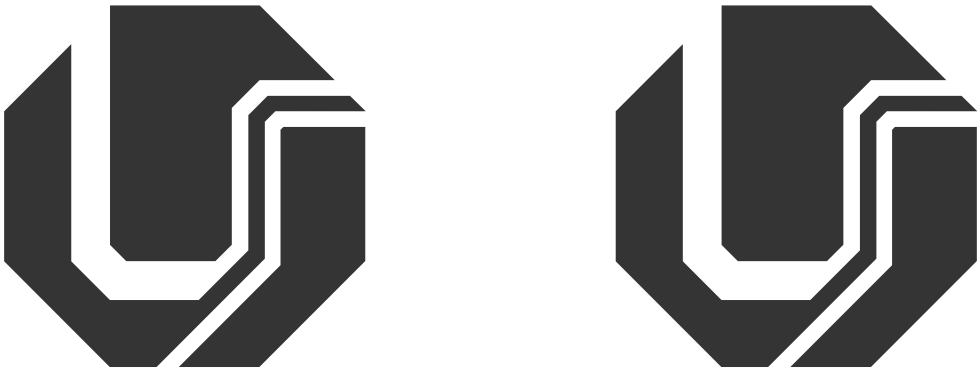


Figure 3.1 – Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

It is possible to insert several images in one figure, each one with its own reference and label, as shown in Figure 3.2. In this case, you can mention Figure 3.2a or Figure 3.2b.



(a) Caption1 (b) Caption 2

Figure 3.2 – Caption for this figure with two images.

3.2 Tables

Table 3.1 illustrates an example of a LaTeXtable.

Table 3.1 – Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

Variable 1	Variable 2	Variable 3	Variable 4
row 1 and column 1	row 1 and column 2	row 1 and column 3	row 1 and column 4
row 2 and column 1	row 2 and column 2	row 2 and column 3	row 2 and column 4

4

Discussion

4.1 Part 1

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4.2 Part 2

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5

Conclusion

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References

1 R CORE TEAM. **R: A Language and Environment for Statistical Computing**. Vienna, Austria, 2021. Available from: <https://www.R-project.org/>.

Glossary

Mechanoreceptor

the specialized sensory receptors that respond to mechanical stimuli. They play a crucial role in the ability to sense and perceive touch, pressure, vibration, and other mechanical sensations.

Sensory receptors

the cells specialised to respond to a particular type of external energy.

A

Supplementary Materials

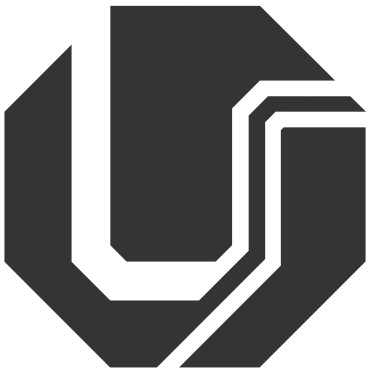

Figure A.1 – Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.