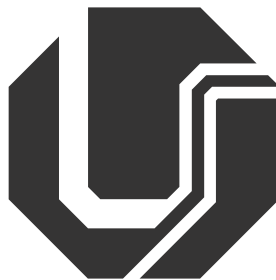


FEDERAL UNIVERSITY OF UBERLÂNDIA
FACULTY OF ELECTRICAL ENGINEERING
UNDERGRADUATE PROGRAM IN BIOMEDICAL ENGINEERING



AUTHOR

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UBERLÂNDIA, MG

2026

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... 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

Supervisor: Supervisor

UBERLÂNDIA, MG

2026

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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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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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Materials and Methods

2.1 Listed Items

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2.3 Nested enumeration numbering

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2.4 Equations

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

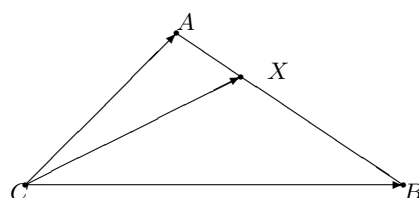
$$ApEn(m, r, N) = \begin{cases} \phi^m(r) - \phi^{m+1}(r), & \forall m \leq 0 \\ -\phi^1(r), & m = 0 \end{cases}, \quad (2.1)$$

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

L^AT_EX provides 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 ($\$ \dots \$$) for inline expressions or double dollar signs ($\$ \$ \dots \$ \$$) or environments like $\left[\dots \right]$ for displayed equations.

2.5 Pictures

You can create geometric representations in L^AT_EX.



2.6 Code

You can insert scripts into your text.

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

Table 2.1 – Greek letters and their corresponding L^AT_EX commands.

2.6.1 R

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

```

1 # loading R package
2 library(ggplot2)
3
4 # data visualization
5 ggplot(mpg, aes(displ, hwy, colour = class)) +
6   geom_point()

```

2.6.2 Python

```

1 # libraries:
2 import numpy as np
3 import pandas as pd
4 import matplotlib.pyplot as plt
5 # creating the variables:
6 x = np.linspace(0,100)
7 y = x**2
8 # plotting

```

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

Table 2.2 – Common mathematical symbols and their corresponding L^AT_EX commands.

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

2.6.3 SQL

```
1 SELECT
2     id,
3     name,
4     age,
5     sex,
6     disease
7 FROM participants
8 ORDER BY 1000;
```

2.6.4 C

```
1 #include <stdio.h>
2
3 int main() {
4     printf("Hello, world!\n");
5     return 0;
6 }
```

2.6.5 Matlab

```

1 % sampling frequency (Hz)
2 fs = 1000;
3
4 % time vector (2 seconds)
5 t = 0:1/fs:2;
6
7 % signal frequency (Hz)
8 f_signal = 10;
9
10 % sinusoidal signal
11 signal = sin(2*pi*f_signal*t);
12
13 % additive white Gaussian noise
14 noise = 0.4 * randn(size(t));
15
16 % resulting noisy signal
17 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**

$X \leftarrow X \times X$

$N \leftarrow \frac{N}{2}$

else if N is odd **then**

$y \leftarrow y \times X$

$N \leftarrow N - 1$

end if

end while

▷ This is a comment

2.8 References

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

Results

3.1 Figures

Figure 3.1 illustrates an example of a \LaTeX figure.

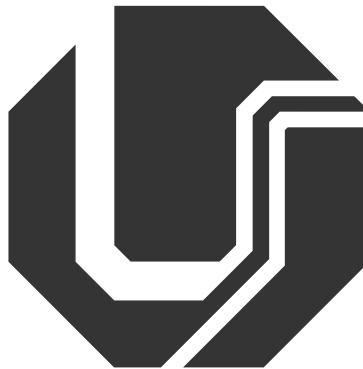
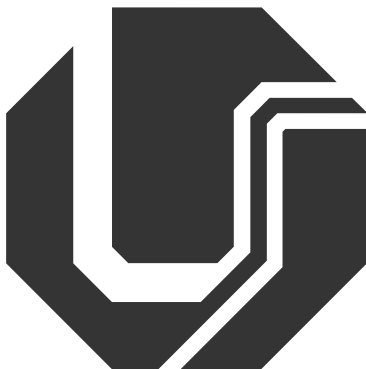
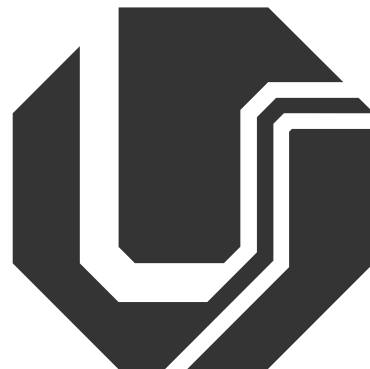


Figure 3.1 – Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

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 `\table`.

Table 3.1 – Lorem ipsum dolor sit amet, consectetur 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

Discussion

4.1 Part 1

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4.2 Part 2

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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.

Supplementary Materials

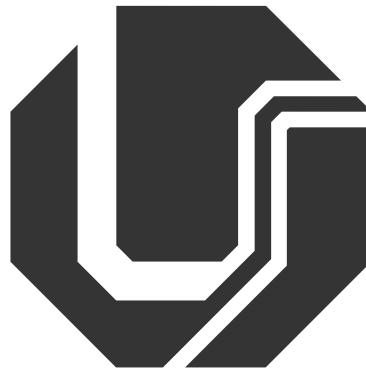


Figure A.1 – Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.