

PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA  
MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH  
LARBI TEBESSI UNIVERSITY



FACULTY OF EXACT SCIENCES AND SCIENCES OF NATURE AND  
LIFE

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

---

# Takalem : A deep learning approach for Algerian sign language recognition

---

*Submitted by*  
FATHI ABDELMALEK

*Supervised by*  
PR. MOHAMED AMROUN  
DR. ISSAM BENDIB

March 17, 2023

## Dedication

*To my dear mother  
To my dear father  
To my dear sisters  
To my dear brothers  
To my adorable grandmother  
To all my uncles, aunts and cousins  
To all my friends and colleagues  
To every one who have supported me*

Fathi Abdelmalek

# Acronyms

## **Abstract**

content...

***Keywords***— one, two, three, four

# Contents

<b>I</b>	<b>State of the art</b>	<b>1</b>
<b>1</b>	<b>Sign Language Recognition</b>	<b>2</b>
1	Introduction . . . . .	2
1.1	sub 1 . . . . .	2
1.1.1	sub sub 1.1 . . . . .	2
1.1.2	sub sub 1.2 . . . . .	2
1.2	sub 2 . . . . .	2
1.2.1	sub sub 2.1 . . . . .	2
1.2.2	sub sub 2.2 . . . . .	2
<b>2</b>	<b>Related works</b>	<b>3</b>
1	Old works . . . . .	3
<b>II</b>	<b>Contribution</b>	<b>4</b>
<b>1</b>	<b>Programs used</b>	<b>5</b>
1	Introduction . . . . .	5
1.1	sub 1 . . . . .	5
1.1.1	sub sub 1.1 . . . . .	5
1.1.2	sub sub 1.2 . . . . .	5
<b>2</b>	<b>Results</b>	<b>6</b>

# List of Figures

# List of Tables



## Part I

# State of the art

# Chapter 1

## Sign Language Recognition

### 1 Introduction

#### 1.1 sub 1

##### 1.1.1 sub sub 1.1

Artificial Intelligence field is widely used those days, one of his major fields is Machine Learning.

Machine Learning is one of the major fields in Artificial Intelligence.[1]

##### 1.1.2 sub sub 1.2

#### 1.2 sub 2

##### 1.2.1 sub sub 2.1

##### 1.2.2 sub sub 2.2

## Chapter 2

# Related works

### 1 Old works

**Part II**

**Contribution**

# Chapter 1

## Programs used

### 1 Introduction

#### 1.1 sub 1

##### 1.1.1 sub sub 1.1

##### 1.1.2 sub sub 1.2

## Chapter 2

# Results

# References

- [1] O. Bouziane. Mobile application for the management of a smart trashcan. Master's thesis, Larbi Tebessi University, 2020.