



**Bahria University**  
Discovering Knowledge

## **FINAL YEAR PROJECT REPORT**

# **FACIAL FEATURE EXTRACTION FOR SMILE DETECTION**

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# FACIAL FEATURE EXTRACTION FOR SMILE DETECTION

## ABSTRACT

The mental state of a person is judged by detecting smiles. The smile detection starts with the facial recognition.

Smile detection from facial images is a specialized task in facial expression analysis with many potential applications such as smiling payment, patient monitoring and photo selection. The current methods on this study are to represent face with low-level features, followed by a strong classifier. In this project, we propose to extract smiles and non smiles by using MATLAB. A key contribution of this work is that we use both recognition and verification as supervision which is helpful to in smile detection .

## CHAPTER

1	Introduction	
1.1	Background	15
1.2	Problem Statement	16
1.3	Aims and Objectives	16
1.4	Scope of Project	17
2	Literature Review	
2.1	General Methods for Interacting with Appliances	19
2.2	Assisted Interaction for Specially Abled people	19
2.3	Related Work	19
2.3.1	Smile Detection for New Appliances	19
2.3.2	An Efficient Approach to Smile Detection Using Facial	20
2.3.3	Facial and Body Language based on deep learning features (ALPH)	20

## TABLE OF CONTENTS

<b>DECLARATION</b>	<b>ii</b>
<b>APPROVAL FOR SUBMISSION</b>	<b>iii</b>
<b>ACKNOWLEDGEMENTS</b>	<b>vi</b>
<b>ABSTRACT</b>	<b>vii</b>
<b>TABLE OF CONTENTS</b>	<b>viii</b>
<b>LIST OF TABLES</b>	<b>x</b>
<b>LIST OF FIGURES</b>	<b>xi</b>
<b>LIST OF SYMBOLS / ABBREVIATIONS</b>	<b>xii</b>

## CHAPTER

<b>1</b>	<b>Introduction</b>	
	1.1 Background	15
	1.2 Problem Statements	16
	1.3 Aims and Objectives	16
	1.4 Scope of Project	17
<b>2</b>	<b>Literature Review</b>	
	2.1 General Methods for Interacting with Appliances	18
	2.2 Means of Interaction for Specially-Abled people	18
	2.3 Related Work	19
	2.3.1 Smile Detection for User Interfaces	19
	2.3.2 An Efficient Approach to Smile Detection (Caifeng Shan)	20
	2.3.3 Facial smile detection based on deep learning features (ACPR)	20

<b>3</b>	<b>Design and methodology</b>	
	3.1 Method	22
	3.2 Software Model	22
	3.3 Computer Vision and Digital Image Processing	22
	3.4 WebCam	23
	3.5 Methodology	24
	3.5.1 Development Model	24
	3.6 Workflow	25
	3.7 Gantt Chart	26
<b>4</b>	<b>Implementation</b>	
	4.1 Overview	28
	4.1.1 Computer Vision	28
	4.1.2 Digital Image Processing	28
	4.1.3 Image Analysis	29
	4.2 Feature Extraction	29
	4.3 Smile Detection	30
	4.3.1 PCA	32
	4.4 Modified Viola Jones Face Detection	31
	4.5 Shi-Tomasi Corner Detection	32
	4.6 Code Implementation	32
<b>5</b>	<b>Result and Discussion</b>	
	5.1 Illustrated Example	35
	5.2 Performance Analysis Number	36
<b>6</b>	<b>Error! Bookmark not defined.</b>	
	6.1 Conclusion	38
	6.2 Recommendation for future	38
	<b>REFERENCES</b>	39