Universiti Teknologi MARA

Identifying Types of Facial Skin

Nur Saina binti Haji Basri

Bachelor of Science (Hons.) Computer Science Faculty of Computer and Mathematical Sciences

July 2012

APPROVAL

Identifying Types of Facial Skin

by

Nur Saina binti Haji Basri 2009971527

A thesis submitted to FACULTY OF COMPUTER AND MATHEMATICAL SCIENCES UNIVERSITI TEKNOLOGI MARA

In fulfillment of the requirement for the BACHELOR OF SCIENCE (Hons.) COMPUTER SCIENCE

Approved by the examining committee:

Prof. Madya Dr. Puteri Nor Hashimah Binti Megat Abdul Rahman Project Supervisor

July 2012

DECLARATION

I hereby declare that this research entitled "*Identifying Types of Facial Skin*" together with all of its contents is comes with my own work, except for some information taken from other sources that have been quoted respectively.

NUR SAINA BINTI HAJI BASRI 2009971527

ACKNOWLEDGEMENTS

In the name of ALLAH The Most Gracious and the Most Merciful

First and foremost, Alhamdulillah praises and thank you to Allah S.W.T for giving me strength and bless to complete my project within a given time.

Special thanks to my project supervisor and also my thesis advisor, Prof. Madya Dr. Puteri Nor Hashimah Binti Megat Abdul Rahman. She is the one who always give me advices, support, knowledge, and also be patient in guidance me to finish my project successfully. I am truly grateful to have her as my project supervisor and this project might not been completed without her support.

I would also like to present my thanks to all my family members includes my parent, siblings and friends that were always support and motivate me to complete this project.

Lastly, thank you to all lecturers and classmates from Department of Computer Science UiTM Perak and also to everyone who has helped me either directly or indirectly to complete this project. I truly appreciate everything that all of you had give to me.

Thank you. May Allah bless all of you.

TABLE OF CONTENTS

CONTENTS

APPROVAL	ii
CERTIFICATE OF ORIGINALITY	iii
ACKNOWLEDGEMENTS	iv
TABLE OF CONTENTS	V
LIST OF FIGURES	ix
LIST OF TABLES	Х
LIST OF ABBREVIATIONS	xi
ABSTRACT	xii

CHAPTER 1: INTRODUCTION

1.0	Introduction	1
1.1	Problem Statement	2
1.2	Project Objective	2
1.3	Project Scope	2
1.4	Project Significance	3

CHAPTER 2: LITERATURE REVIEW

2.0	Introduction	4
2.1	Texture Descriptor	4
2.3	Image Clustering and Segmentation	6
2.4	Conclusion	6

CHAPTER 3: RESEARCH METHODOLOGY

3.0	Introduction	7
3.1	Research Process	7