UNIVERSITI TEKNOLOGI MARA

BIOMETRICS FINGERPRINT VERIFICATION SYSTEM

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ABSTRACT

This independent study is the first attempt to study the Biometrics field and focusing on Fingerprint Verification System. Fingerprint technology is the leading biometric authentication technology in use today with the greatest variety of fingerprint devices presently available. This is partly due to the historical use of the fingerprint in law enforcement as well as the technology lends itself to a more affordable solution. There are several processes that will be applied to verify the fingerprint. The fingerprint image will need to go through some preprocessing methods such as binarization and thinning in order to ensure the precision and reliability of the image. For the feature extraction process, we need to locate the core point by looking for an occurrence of a template in the verification image. For this IS project, I will study on the method use in detecting the core point by tracing the edge along the ridge.

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TABLE OF CONTENTS

ABSTRACT ..... **I**
CANDIDATE'S DECLARATION ..... **II**
ACKNOWLEDGEMENTS ..... **III**
LIST OF TABLES ..... **VI**
LIST OF FIGURES ..... **VII**
LIST OF ABBREVIATIONS ..... **VIII**

CHAPTER 1 ..... **1**
INTRODUCTION **1**
1.0 Introduction 1
1.1 Research Background 2
1.2 Introduction to Biometrics Methodologies 3
1.3 Multibiometrics 4
1.3.1 Fingerprint Verification 4
1.3.2 Fingerprint Watermarking 7
1.3.3 Hybrid Fingerprint Matcher 8
1.3.4 Fingerprint Classification 8
1.3.5 Distinguishing Twins Using Fingerprint 8
1.3.6 Individuality of Fingerprint 9
1.3.7 Combination of Fingerprint Matchers 9
1.3.8 Hand Geometry 10
1.3.9 Biometric Template Selection and Update 10
1.3.10 Signature Verification 11
1.3.11 Facial Verification 11
1.3.12 Voice Recognition 12
1.3.13 Retinal Scanning 13
1.3.14 Iris Recognition 14
1.3.15 Gait Recognition 14
1.4 Biometrics-based Multimedia Content Protection 15

CHAPTER 2 ..... **16**
LITERATURE REVIEW **16**
2.0 Introduction 16
2.1 Overview 16
2.1.1 Minutiae Based Research 17
2.1.2 Image Based Approach Research 20
2.1.3 Practical Applications for Fingerprint Scanning 22
2.1.4 Accuracy and Integrity 22
2.2 Studying on Fingerprint Scanners and their features 23
2.3 Fingerprint Verification 26

2.4 Fingerprint Recognition 27
2.5 Fingerprint Image Sensors 28
2.6 Feature Extraction 30
2.7 Fingerprint Matching 32
2.8 Pores 34
2.9 Image Processing 36

CHAPTER 3 37
METHODOLOGY 37
3.0 Introduction 37
3.1 Research Problem 37
3.2 Research Question 38
3.3 Research Objective 38
3.4 Research Scope 38

CHAPTER 4 39
IMPLEMENTATION AND EVALUATION 39
4.0 Introduction 39
4.1 VeriFinger Algorithm Features 39
4.1.1 What's significant in VeriFinger 42
4.1.2 Installation and distribution contents 42
4.1.3 Using VeriFinger 5.0 algorithm 43
4.1.4 ROC calculation 47
4.2 Fingertec Time Attendance System 48
4.2.3 Features and Benefit 49
4.2.4 Layout Plan 50
4.2.5 Product Specifications 50

CHAPTER 5 52
DISCUSSION AND CONCLUSION 52
REFERENCES 53
APPENDIX 55