

Universiti Teknologi MARA

**Hairstyle Suggestions based on Face
Shape Identification System**

Farah Atika binti Anassuzastri

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ABSTRACT

This project paper puts forward about hairstyle suggestions based on face shape identification system. One-third of Malaysians do not know their face shape and often end up with unsuitable hairstyle for them. The project is newly suggested as it using image processing and back propagation neural network as to conclude the final result. The system offers to help about giving some tips on styling the user's hair based on her face shape and it helps the user to understand what type of face shape does the user has. The system will be designed with friendly interface and clear process although using many hidden techniques from image processing, training, reasoning and so on. Total of data collected is 200 from women in age range 20 to 25 years old mimicking three types of facial expressions – happy, neutral and pout. It will become important system for the development of fashion especially of hairstyle ahead since hair is one of the natural accessories and a guilty pleasure for a person.

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CHAPTER 1

INTRODUCTION

This chapter focuses on the introduction of the project with the title ‘Hairstyle Suggestions based on Face Shape Identification System’. This chapter contains the background study, problem statements, research questions, objectives, project scope, significances, focus elements and the expected outcome in developing of this project.

1.1 Background Study

In the current generation, the hairstyle of a person depicts to the community about their personality and their first impression. “You can keep your hair neat and presentable people will look past preconceived notions of urban hairstyles” (Luis, 2006). “Self-confidence of a person can be increased by only based on how they feel about themselves from their appearance and hairstyles. Your hair is an expression of who you really are” (Carroll, 2009).

A good haircut is meant to look good and to enhance the appearance of individual’s face as it will look right for one person and may not be right for another. A good hairstyle does not mean it is suitable with that particular person regardless how attractive the hairstyle is without matching it with that particular person’s face shape. Nevertheless, a proper hairstyle is to balance the face. One of the example it could be describe to help out to make an individual look slimmer with a round face and round out an oval face.