

Universiti Teknologi MARA

**Identification of JAKIM
Halal Logo**

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ABSTRACT

In Islam, choosing halal products are important in life. This is because by referring the rules of dietary laws, Muslim can only consume only lawful (halal) foods and are prohibited from taking the unlawful (haram) foods. Jabatan Kemajuan Islam Malaysia (JAKIM) has introduced two methods to verify halal logos which are 'E-Halal' System and Verify Halal Application. These two methods are usable, but user needs to pay if they want to use it. This project proposed a method based on image processing to measure the similarity between the original halal logo and tested halal logo. The test halal logo can be retrieved from the internet and can be captured by using a digital camera. Then, the user can verify them by using the proposed system where they will get the similarity matches accuracy between the tested halal and the original halal logo image in the system. Fifty different halal logos have been tested and show that this proposed method could be used in verifying the originality of the tested halal logo. This proposed method is integrated into an application called Identification of JAKIM Halal Logo.

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CHAPTER 2

LITERATURE REVIEW

2.0 Introduction

Hasan (2016) states that Halal factually means acceptable and in direct translation is lawful. The right rules for Halal food are followed by Islamic Sharia. Contrary of Halal is haram, which is unlawful or prohibited. Everyone acknowledge that Muslims consume Halal meat in the meat trade. Many people confused on what is Halal supposed to mean? The main issue in Muslim current generation is they do not aware in choosing food industry to consume. Mohamed (2016) tells a few of studies have shown that the lack of knowledge, alertness and understanding of the Halal thought between Muslim producers of Halal products may lessen values of Halal-ness. Muslims really take Halal issue seriously after Halal logo has becoming a crucial tool in market to verify Halal products (Ismail, Othman, Rahman, Kamarulzaman, & Rahman, 2016). In 1968, Manan, Rahman & Sahri (2016) says the Malaysian Council of Rulers decided that there was a need for a group that can manage the development of Muslims in Malaysia. In fact that a secretariat for the National Council of Islamic Affairs of Malaysia was developed to protect the purity of faith and the teachings of Islam in Malaysia. This secretariat was later expanded to become the Religious Division, Prime Minister's Department which was later upgraded to become the Islamic Affairs Division (BAHEIS). On 1st January 1997, in line with the country's steadfast Islamic development and progress, the Department of Islamic Development Malaysia (JAKIM) was established by the Government of Malaysia to take over the role of BAHEIS. Certification of Halal logo by JAKIM is truly sign to approve the product is classify as Halal in the market. However, there are still some of Halal logo in the market are fake. Therefore, JAKIM has introduced two methods in order to verify Halal logos. The methods are E-'Halal' System and Verify Halal Application. In 2008, JAKIM has introduced E-'HALAL' system to verify Halal logo (Mohd, Wahab, Helmy, & Yaakob, 2008). The first thing need to