



VIDEO RETRIEVAL USING CONTENT BASED  
APPROACH

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MU'ATH ZIAD NAJIB AL-SHAIKH

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UNIVERSITY UTARA MALAYSIA  
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# **VIDEO RETRIEVAL USING CONTENT BASED APPROACH**

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**A thesis submitted to the College of Arts and Science  
In partial fulfillment of the requirement for the degree  
Master of Science (Information Technology)  
University Utara Malaysia  
April 2010**

**By**

**Mu'ath Ziad Najib Al-Shaikh (803053)**

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Tandatangan  
*(Signature)*

:

**ANIZA MOHAMED DIN**  
Lecturer  
College Of Arts And Sciences  
(Applied Science)  
Universiti Utara Malaysia

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## **Abstract**

Information retrieval systems are living a significant position in our daily life for getting the necessary information. Many text retrieval systems are accessible and are functioning effectively. Even though internet is complete with media like images, audio and video, retrieval systems for these media are unusual and have not achieved sensation as that of text retrieval systems. Video retrieval systems are helpful in many applications. There is a high request for useful and capable tool for video association and retrieval based on each user's requirement. Videos are divided into set of frames (images) then they are classified into content based image retrieval. We are developing a content based video retrieval system, which makes use of ontology to make the retrieval process intelligent.

## Dedication

---

*I humbly thank Allah Almighty, the Merciful and the Beneficent, who gave me health, thoughts and co-operative people to enable me achieve this goal,,,*

*I wish to dedicate this work to Holy Prophet Muhammad (Peace be upon him) and his companions who laid the foundations of Modern civilization and paved the way for social, moral, political, economical, cultural and physical revolution,,,*

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*Last thing I will not forget the day Thursday 21/1/2010 throughout my life*

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*Mu'ath Ziad Najib Al-Shaikh*

*2010*

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# **CHAPTER 1**

## **INTRODUCTION**

### **1.0 INTRODUCTION**

Internet makes it achievable for people to access huge total of information. The great impossibility of the World Wide Web (web) is that the more information accessible about a specified topic, the more tricky it is to put the correct and relevant information. Most of the users know what information they need, without knowing where to get it from. Some of the users know what the information they are looking for and where to get it from; and they get it by subsequent suitable links. But these users frequently fail to notice the relevant information accessible on the web which is distant from their known links. Search engines can help all users to find such relevant information(Ding, Chowdhury, Foo, & Qian, 2000).

Videos have been used in human infrastructure for a long time. Computers supply the ability of digital Video capturing, processing and transmission, which makes the usage of digital Video simple and common. This helps us improve better in some areas which are deeply dependent on Video for communication, such as architecture. Since Videos are more significant than words in some cases, most of web sites use videos to communicate their contents(Barbieri, Lambruschini, Raggio, & Stagnaro, 2007).

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