

**DEVELOPMENT OF BATCH FACIAL DETECTION
AND RECOGNITION SYSTEM FOR IMAGES**

THESIS

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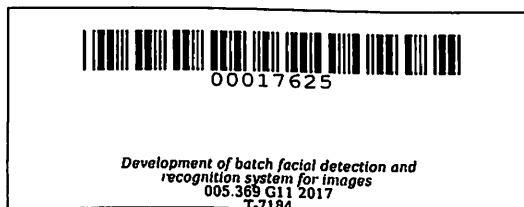
THESIS/SP 005.369 G11 2017

May 2017

DEVELOPMENT OF BATCH FACIAL DETECTION AND RECOGNITION SYSTEM FOR IMAGES

Undergraduate Thesis
Submitted to the faculty of the
College of Engineering and Information Technology
Cavite State University
Indang, Cavite

In partial fulfillment
of the requirements for the degree
Bachelor of Science in Computer Science



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May 2017

ABSTRACT

GADDI III, ERNESTO A. and MARINO, KAREEM CARL O. Development of Batch Facial Detection and Recognition System for Images. Undergraduate Thesis. Bachelor of Science in Computer Science. Cavite State University, Indang, Cavite. May 2017. Adviser: Ms. Ria Clarisse L. Mojica.

This study was conducted from March 2016 to March 2017 at Cavite State University - Main Campus. The purpose of the study was to develop a face detection and recognition system in images using facial detection and recognition that would greatly help in minimizing time and effort in searching a desired face in a bulk of images.

Rapid Application Development was used as the methodology of the system. To implement the facial recognition feature of the system, Local Binary Pattern (LBP) and Red Green Blue (RGB) were used. One hundred participants of any demographic profile who are computer literate and love to take photos evaluated the system.

According to the overall mean and evaluation results, the system was judged to be very good in all aspects such as functionality, reliability, usability, efficiency, and maintainability. Upon the completion of the study, the researchers concluded that this would be a possible solution to lessen the time and effort consumption in searching a desired image of face in a bulk of images.

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An undergraduate thesis manuscript submitted to the faculty of the Department of Information Technology, College of Engineering and Information Technology, Cavite State University, Indang, Cavite in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science with Contribution No. 2016-17-2-138. Prepared under the supervision of Ms. Ria Clarisse L. Mojica

INTRODUCTION

Facial recognition is a computer application that is capable of identifying or verifying a person through sample specimen or digital image. Some facial recognition algorithms identify facial features by extracting landmarks, or features, from an image of the subject's face. Face detection is a computer technology being used in a variety of applications that identifies human faces in digital images. Face detection also refers to the psychological process by which humans locate and attend to faces in a visual scene. Any facial feature changes in the database will invalidate the matching process. Nowadays, our technology is growing very fast. People see new different applications that will help them to make technology and their life easy. IT companies also provides people the software that will keep up to the pace of fast growing technology (Xiong, 2010).