**DEVELOP AN ICR APPLICATION FOR CAPTURING DATA RATINGS FROM TEACHER EFFICIENCY RATING FORMS OF MINDANAO STATE UNIVERSITY- GENERAL SANTOS CITY**



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# Chapter 1: Introduction

## Background of the Study

The traditional way of entering data into a computer is through the keyboard. However, this is not always the best nor the most efﬁcient solution. In many cases, automatic identiﬁcation may be an alternative. Various technologies for automatic identiﬁcation and recognition exist, and they cover the needs for different areas of application.

The Mindanao State University – General Santos City, conducts faculty evaluation once every semester as stipulated in the university codebook. The office of the Vice Chancellor for Academic Affairs (OVCAA) is the one responsible for this activity. They are the ones who distributes, collects and records the data from Teacher Efficiency Rating (TER) Forms and produces printed copies of the summary report of the faculty evaluation results to the faculty members.

On higher education institutions, results of evaluation usually merit-academic milestones such as renewal of contractors and promotion. (Taguiam, 2016)(Karim, 2011). So, it is important for the data to be encoded with less or no error. After the manual evaluation, the collected TER forms are manually encoded to a system that is equivalent to the evaluation sheet. According to the Vice Chancellor during the interview with her, the main problem is the speed in encoding the data from the printed TER forms. That’s why the summary results are given to the faculty members after one semester due to a load of data from the evaluation to be encoded manually.

The use of machine-readable forms has been steadily increasing in popularity for obvious reasons, perhaps the foremost of which is that these devices provide a means of automatically gathering very large numbers of human responses. (Mak & Hk, 2009).

The objective of this project is to show that computer vision technologies can be an alternative for capturing data from printed documents.

## Technology Background

## Objectives of the Study

### General Objective

This study is focused on developing an application that will capture data from the scanned TER Forms using ICR Technology.

### Specific Objectives

1. Develop an application using Intelligent Character Recognition (ICR) for capturing ratings data from TER Forms.
2. Compare manual encoding of ratings, OMR and ICR technology base on:
   1. Speed
   2. Accuracy
   3. Effectiveness
   4. Resources
   5. Feasibility

## The Significance of the Study