

## **Abstract**

Presence of employees is one of the problems often faced by HRD in many company. Beside to measure the performance of employee, presence is also a measure of the value of honesty, dicipline and professionalism of employees in a company.

Today, there are some sophisticated and easy to use machines presence, such as barcode card readers, fingerprints readers and etc. But all of this machine can not be used to detect and find a pattern of cheating when there are employees who left their presence card to be filled by the other employees, so that they can go to work not in the set time.

This Final Project will perform an analysys and implementation of MaxDiff Histogram and GenMax Algorithm to detect pattern and find the cheated employee in the company. The data to be examined is the presence employee data recapitulated by the HRD department in some period.

The output of this system is a list of employees who are suspected of cheating, the association rule and the percentage frequency of fraud. This information can be used by the HRD division to decide on further policy issues related to employee.

**Keyword : Presence, Max Diff Histogram, Association rule, GenMax**