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## Analyzing and Detecting Employee's Emotion For Amelioration Of Organizations

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### Abstract

These days employees well- being is the most growingly pertinent and mandatory consideration in the modern workplace of any organization. Until recently, emotions were considered a forbidden topic in the working place. They were no person's concern, and they had no place in business. They were not allowed to discuss it and those issues must always be left at home. Today, research on how emotions affect inventiveness, production, and profession success has put a jaunt on the subject. They are realizing that how well they elicit and sustain positive emotional states in their employees plays a major role in their organization's victory or defeat. This is because emotions directly influence the five major sources of competitive advantage in today's marketplace: Intellectual Capital, Customer Service, Organizational Reactivity, Production, Employee appeal and retentivity. By becoming more knowledgeable about how emotions affect the primary sources of competitive advantage, organizations can help their management team recognize the critical connection of employee's emotions and then try to make it right before it affects the productivity. In this paper, the proposed approach to the problem of employee's emotions are resolved by detecting their emotions using C#. At the time of entering into the organization, face of the employees are captured to analyze their emotions and stored in the database.

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## 1. INTRODUCTION

Until recently, emotions were considered a forbidden topic in the working place. They were no person's concern, and they had no place in business. They were not allowed to discuss it and those issues must always be left at home. They are realizing that how well they elicit and sustain positive emotional states in their employees plays a major role in their organization's victory or defeat. This is because emotions[1] directly influence the five major sources of competitive advantage in today's marketplace: Intellectual Capital, Customer Service, Organizational Reactivity, Production, Employee appeal[4] and retentivity. By becoming more knowledgeable about how emotions affect the primary sources of competitive advantage, organizations can help their management team recognize the critical connection[2] of employee's emotions and then try to make it right before it affects the productivity. This concept can detect any human's emotions[5] from the employee's image captured as they enter the organization.

## 2. RELATED WORKS

### 1. EMOTION RECOGNITION BASED ON BRAIN-COMPUTER INTERFACE SYSTEMS:

The emotional state of a person defines their interaction with other person. Hence, the human emotions recognition is becoming a concern in the development of systems that require human and machine collaboration[11].

### 2. EMOTION DETECTION FROM TEXT:

In this paper, methods which are currently being used to detect emotion from text are reviewed[10] along with their limitations and new system flow is advanced, hence will perform efficiently.

## 3. SYSTEM ARCHITECTURE

The proposed approach to the problem of employee's emotions for the amelioration of organizations are resolved by detecting their emotions using C#. At the time of entering into the organization, face[3] of the employees are captured to analyze their emotions and stored in the database. The system flow is that as people enter the organization to swipe their card in order to prove their presence at work. We have designed a new system, as a replacement to these cards or with respect to these we make use of the camera's to capture the face of the employee's entering the organization in Fig.1. As each face is captured they are analysed simultaneously and results are displayed. The system takes the image captured live from a camera. Once this is done, by skin colour segmentation, it detects the person's skin colour and then his/ her face. The eye and lip parts of the face are separated. The Bezier curve is drawn for the eyes and lips. Comparison between the Bezier curve drawn and which is present in the database is done for the eyes and lips. Finally the closest Bezier curve is taken from the database and shows the emotion. Hence the emotion is detected. The outcome of the analyzing performed is the emotion of each employee. It shows whether they are happy, sad, depressed or angry. This analyzing makes a better working environment for a better productivity.

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