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ASYNTHESIS OF RESEARCH IN FACE RECOGNITION USING MACHINE LEARNING

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Abstract

Today, Face Recognition (FR) is the very powerful area of Machine Learning. Face is the most specific biometric facial marks have played a crucial role in identifying a human face. Currently, most fame of the Mole, Scar and Emotion in Face Recognition. Mole are considered distinctive feature that can aid in identifying individuals by its shape, size, color and location. Scarring is problematic for FR that all individuals will manifest some degree of scarring. Emotion is a kind of human behavior such as face expressions, body gestures, EEG signals and brain waves. Finally, a solid discussion is given in this paper about future directions in terming of techniques to be used for Face Recognition.

Introduction

Mole, Scar and Emotions: Mole distinctive marks on the skin that can be used to identify individuals. This study scarring on the face and overcome to replicate realistic dataset for performance analysis. Emotions in a human behavior for facial expressions.

Security and Safety: Biometric face recognition is the face identity for highly secure. The facial marks for detection into a very safe manner.

Uses of (MSE): Identification and Verification of human face through facial moles along with many security applications like issuing driving license, passport to international travelers, identification of wanted criminals. FR is several possible places used in education, hospitals, IT solutions, Banks, criminal identification (or) CCTV footages.

Algorithm of Face Recognition: In this article various ideas for (MSE), used algorithm in Facial Mark detection algorithm.

Key Words: Mole, Scar, Emotion, Face Identification, Facial Expression.

Overview of Face Recognition

Facial Expression: Facial Expression is one or more Emotions or Positions in the convey of face. There are various face expressions such as Happiness, Sadness, Anger, Excitement, Surprise, confusion and so on….

Applications of FR:

Pose Variation: It can be used for the airport to identify the terrorist or thief for detect to surveillance camera or advanced captured camera. The surveillance camera captured the thief image to store and then compared with footage, will be scanned.

Expression: We can't understand their thoughts unless, the human being can express via facial expression or communication.

Plastic Surgery: First, The FR technique detect from the terrorist to more crucial or complicated. So, Next will be implemented by the plastic surgery. The plastic surgery is alternative for the total face extended.

The Benefits of Plastic Surgery:

i. Reshape the nose
ii. Aged skin texture will be change younger skin

Face Recognition using MSE

MSE: MSE stands for Mole, Scar and Emotion. It is used to identify verification. The MSE is detect to individual identity for human face recognition.

MSE has some biometric characteristics :

Mole: A small dark spot on a person's skin that never goes away.

Scar: A mark remaining as on the skin after an injured tissue as healed.

Emotions: One of the most important part of face recognition is a person smiling, angry, scared and so on… The FR using the emotions of machines understand the

human emotion with the images are compared to identify the system are 50% of the task.

Development of MSE: The development of FR using MSE provides geography, market segments, demographics.

Issues of MSE

In the face recognition the face image is one of the challenge in MSE. Comparing to the computer the face image differs by more variation like,

i. Face Makeup
ii. Face Expression
iii. Differs in age

now a days by using the advanced feature, some of the challenges we have to face in taking of videos (scene).

Pose: If the angle of rotation raises it may cause some problems to get the pose (Face Recognition System).

Low Resolution: In Face Recognition System it must be in 16/16 facial picture resolution. Lighting effects, deep makeup or some challenging condition in low resolution.

Conclusion:

In these Model can be very essential and more effective to solve scenario challenges in Face Recognition (FR). The Emotion Recognition to understand the image to judge the system or machine using more advanced in current usability. The given Proposition is to provide better accuracy and better Performance rewarding Face Recognition.

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