FACE ANNOTATION FOR DATA VERIFICATION

Diksha Meshram*, Monika Meshram-**, Sonam pandey***
Prof. Ashish kumbhare
Computer science and engineering
Jhulelal institution of technology, Nagpur

Abstract:

A face annotation has many applications the main part of based face annotation is to management of most same facial images and their weak data labels. This problem, different method are adopted. The efficiency of annotating systems are improved by using these methods. This paper proposes a review on various techniques used for detection and analysis of each technique. Combine techniques are used in retrieving facial images based on query. So it is effective to label the images with their exact names. The detected face recognition techniques can annotate the faces with exact data labels which will help to improve the detection more efficiently. For a set of semantically similar images Annotations from them. Then content-based search is performed on this set to retrieve visually similar images, annotations are mined from the data descriptions. The method is to find the face data association in images with data label. Specifically, the task of face-name association should obey the constraint face can be a data appearing in its associated a name can be given to at most one face and a face can be assigned to one name.

Keyword: Face Annotation, Content Based, face data, association.

I. INTRODUCTION

The face annotation is an important technique that to annotate facial feature images automatically. The face annotation can be useful to many Applications. The face annotation approaches are often treated as an extended face recognition issue, where different classification models are trained model-based face annotation time consuming and cost of to collect a large amount of human labelled facial images, some studies have attempted to get a search based annotation for facial image annotation by mining to tackle the automated face annotation by exploiting content-based image retrieval method. The objective of is to assign correct data labels given query facial image[1]. It is usually time consuming and cost to collect a large amount of human data labeled training facial images. It is usually difficult to the models when new data or new persons are added, in which an retraining process is usually required. The annotation or recognition performance often poorly when the number of persons or classes is very large.

- Database creation with image in binary bit format array
- Scanning BMP Format Reading per pixel value in RGB value
- Facial feature indexing with data label
- Similar face retrieval with value
- Detected Final output
- Refined data

II. METHODOLOGY

1. The system fed with an image.
2. Extracting Facial Features
3. The important data is extracted from the sample.
   Using software where many algorithms are available
   The outcome which is a reduced set of data that represents the important features of the enrolled user's face.
4. Comparison new Templates
5. This depends on the application at hand. That identification purposes, It will be a comparison between the stored on a database.
6. Declaring a Match with data
7. The face recognition system will return a match
   The intervention of a human operator will be required in order to select the best fit from the candidate data.
   Data labeling procedure. The procedure are compared with data labeling on spectral clustering. After initial
labeling with partial clustering. The proposed labeling algorithm and spectral clustering to label the rest of the faces. We recluster label faces, then data label the cluster, which similarity variation is the lowest. proposed data labeling algorithm get higher efficiency at the beginning of data labeling.

The selection of neural network is done as it has got the unique feature of flexibility with accuracy. We can consider neural network as that student who once taught a thing never forgets to reproduce it as and when required. FACE FEATURE RECOGNITION has adopted the ADAPTIVE behavior of neural network, which makes the project consider Time Complexity and Space Complexity Human beings are gifted with a unique power of visualizing and interpreting the things. But this power is being misused sometimes or it may lead you in a state of ambiguity. It happens sometimes that criminals do change their get up to escape. we familiar with sort of event in some hijacking case or bank robbery case. But if the power of visualizing is adopted in system, the system will not allow this to happen comes for help here. FACE FEATURE RECOGNITION has neural net has learning element. A face is given as input to the neural net, it matches it with faces in its databases and give output in the form as it has RECOGNISE the face and will display the personality description. This is the core of the thesis.

III.FACIAL FEATURES: -

This phase is one of the most vital phase of the project. The outline profile of the end view of human face pattern yields the best discriminant features for identification of human face. This involves the following steps:

1) Binarizing the digitized photograph.

2) Reduction of the binarized photograph to line profile. The ultimate output of this phase is ten facial features, which is necessary and enough to make neural network recognize the human face.

If we look at the side profile of the human face, we find that certain points can be readily defined on the face profile. If these points can be correctly identified they can help in extracting certain characteristics features for that particular face. Ten such points are shown in figure . Out of these ten points, eight points are independent of each other but point 3 and 2 are interrelated with each other. All these points are calculated by using some mathematical relationship logic along with some statistical knowledge. Now, this image can be used to extract the ten points. The ten points and the methods to extract them is as follows:

A) Nose Point (Point1): -This point is the most important of all the points. Nose point forms the basis for the computation of all the other fiducial points. The other can be calculated using certain mathematical logic and available formulas only after finding nose points. To find the nose point the logic to be applied is that, the first point obtained as we scan left to right, the input photograph in side profile is considered as the nose point.

B) Chin Point (Point2): -This is the second fiducial point, which is to be calculated after the calculation of nose point. To find the chin point, all the pixels below the nose point, in the side profile of the input human face are joined with the nose point and whichever pixel is making the largest angle is being considered as the chin point.
C#.NET is also compliant with CLS (Common Language Specification) and supports structured exception handling. CLS is set of rules and constructs that are supported by the CLR (Common Language Runtime). CLR is the runtime environment provided by the .NET Framework; it manages the execution of the code and also makes the development process easier by providing services.

C#.NET is a CLS-compliant language. Any objects, classes, or components that created in C#.NET can be used in any other CLS-compliant language. In addition, we can use objects, classes, and components created in other CLS-compliant languages in C#.NET. The use of CLS ensures complete interoperability among applications, regardless of the languages used to create the application SQL SERVER 2008.

Human beings are gifted with a unique power of visualizing and interpreting the things. But this power is being misused sometimes or it may lead you in a state of ambiguity. It happens sometimes that criminals do change their get up to escape .we familiar with sort of event in some hijacking case or bank robbery case. But if the power of visualizing is adopted in system, the system will not allow this to happen. FACE RECOGNITION USING ADAPTIVE NEURAL NETWORK comes for help here. FACE RECOGNITION has neural net has learning element. A face is given as input to the neural net, it matches it with faces in its databases and give output in the form as it has RECOGNISE the face and will display the personality description. This is the core of the thesis. While giving the face as input few initial arrangements has to be carried out.
IV. Conclusion

The face annotation on labeled images. So research works and new methods are being proposed. The research in this field importance as it is very useful in searching and social Media. The future work will work on multi person data task and thereby efficiency and accuracy of result. If the techniques are implemented properly, then the data label problem will be solved.

REFERENCES


