Abstract

The face is the identity of a person. The methods to exploit this physical feature have seen a great change since the advent of image processing techniques. The accurate recognition of a person is the sole aim of a face recognition system and this identification maybe used for further processing. Traditional face recognition systems employ methods to identify a face from the given input but the results are not usually accurate and precise as desired. The system described in this paper aims to deviate from such traditional systems and introduce a new approach to identify a person using a face recognition system i.e. the generation of a 3D Facial Model. This paper describes the working of the face recognition system that will be deployed as an Automated Attendance System in a classroom environment. The techniques and algorithms used along with the constraints and practical difficulties will be highlighted in this paper. The use
of Fuzzy Logic and the concepts of Content Based Image Retrieval (CBIR) will be the main aspect of the proposed automated system.

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Index Terms

Computer Science
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Keywords

3D Facial Model  Automated Attendance System  Fuzzy Logic  Content Based Image Retrieval