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# ABSTRACT

With the rapid growth in multimedia contents, among such content face recognition has got much attention especially in the past few years. Face as an object consists of distinct features for detection; therefore, it remains the most challenging research area for scholars in the field of computer vision and image processing. This paper, addresses most endeavoring face features such as pose invariance, aging, illuminations and partial occlusion. They are considered to be indispensable factors in face recognition systems when realized over facial images. This paper also studies state of the art face detection techniques, approaches, viz. Artificial Neural Networks (ANN), Support Vector Machines (SVM), Principal Component Analysis (PCA), Independent Component Analysis (ICA), Elastic Bunch Graph Matching, 3D morphable Model and Hidden Markov Models. In addition to the aforementioned works, different testing face databases which include AT & T (ORL), AR, FERET, LFW, YTF, and Yale, respectively for results analysis. The aim of this paper is to provide comprehensive literature review over face recognition along with its applications.

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