The Concept of Designing & Development of Face Recognition System using Complex Wavelet Transform with Hidden Markov Model

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ABSTRACT

In this paper I present a concept of biometrics system performing identification of automatic face recognition. This system is based on complex wavelet features extraction using complex wavelet filter bank construction. For feature extraction the input image is convolved with complex wavelet filter bank to select a set of informative. The HMM (Hidden Markov Models) is used for matching the input face image to the stored images. The purpose of this research is to develop a novel, accurate and efficient face verification system.

Keywords: HMM, Face, Wavelet