Abstract

Face Recognition is to refine the notion of a biometric imposter, and show that the traditional measures of identification and verification performance. Recognition algorithm performs scores on disjoint populations to institute a means of computing and display distribution-free estimates of the dissimilarity in verification vs. false alarm performance. The proposed face recognition system consists of an Illumination Insensitive Preprocessing Method, A Hybrid Fourier-Based Facial Feature Extraction, and Score Fusion Scheme. In pre-processing stage, a figure is normalized and integrated called "integral normalized gradient image". Then, in feature extraction of complementary classifiers, for multiple face models hybrid Fourier features is applied. Multiple face models are generated by normalized face images that have different
eye distances. Finally, to combine scores from multiple complementary classifiers, a log likelihood ratio-based score fusion scheme is used. The goal of the Face Recognition Grand Challenge (FRGC) is to enhance the performance of face recognition algorithms by the order of magnitude.

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**Index Terms**

Computer Science

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**Keywords**

Face Recognition Grand Challenge (FRGC)

Hybrid Fourier-Based Facial Feature Extraction

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