

COLOR IMAGE DISCRIMINATION MODEL FOR GENDER FACE RECOGNITION

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ABSTRACT

Face recognition is one of the biometric methods which are commonly used for the identification of human beings. To identify given face image using main features of the face biometric methods are used. The objective of face recognition involves the extraction of different features of the human face from the face image for discriminating it from other persons. To seek a meaningful representation and an effective recognition method of color images in a unified framework, color image representation and recognition is integrated into one discriminant analysis model: color image discriminant (CID) model. The two sets of variables can be determined optimally and simultaneously by the CID algorithms. A CID model for two-class recognition problems contains one color component combination coefficient vector and one discriminant projection basis vector. A CID algorithm with two class recognition problem is designed for gender classification.

KEYWORDS: Color Image Discriminant (CID), Color Space, Color Images, Gender Classification