

Human Face Recognition in Digital Images

Alireza Zarei

Aminollah Mahabadi

Department of Electrical Engineering, Shahed University, Tehran, Iran

ABSTRACT

We present a light rapid and accurate method for detecting human faces in color images to constraint on the same nationality. The proposed learning method is different from the classical methods and developed via simple and speed learning to apply on accurate detection of human nationality. The method by using skin model information in color images can decrease the time of authentication without any dependency on lighting, background color, face status, face rotation, image dimension, resolution and imaging condition. The face recognition precision is 98% and 97% rate under the controlled and uncontrolled conditions, respectively. Our suggesting method can be applied as an accurate and rapid light automatic face recognition algorithm in an authentication system.

Keywords: Image Processing, Human Face Recognition, Skin Color, Skin Model.