

FACE RECOGNITION USING NEURO-FUZZY AND EIGENFACE

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ABSTRACT

Face recognition is actively growing area of research because it is applied in numerous practical applications such as bank identification, security cameras, criminal investigations, security monitoring, and surveillance system and helps to aid national security. Face is a type of biometric characteristic of the human which is unique to each human. The face is recognized by considering features i.e. eye distance, nose distance, lip distance, etc. In this paper, a human presence is detected by extracting the skin region by using the Eigenface approach. After detecting the skin region, the individual face is recognized using a Neuro-Fuzzy. The experimental results show the effectiveness of the proposed technique.

KEYWORDS: Skin Detection, Neuro-Fuzzy, Eigenface, Face Recognition