RESEARCH ARTICLE

Recent Advances in Facial Recognition Analysis

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ABSTRACT : Facial expression recognition has attracted significant interest in the scientific community due to its importance for human centered interfaces. In recent years, considerable progress has been made in the area of face recognition with the development of many techniques. Applications include border security systems, forensics, virtual reality, computer games, robotics, machine vision, video conferencing, user profiling for customer satisfaction, broadcasting and web services. Various methods have been proposed for automatic recognition of facial expression in the past several decades, In general all the face recognition algorithms uses any one or the combinations of the features namely shape, texture, color, or intensity to represent the facial image structure. There are six universally recognized expressions viz. Angry, Disgust, Fear, Happy, Sad and Surprised. There have been several advances in the past few years in terms of face detection and tracking, feature extraction mechanisms and the techniques used for expression classification. This paper surveys some of the published work since till date.

Keywords - Feature Selection; Genetic Algorithm; human-computer interaction; Particle Swarm Optimization; Intelligence

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