

EYEBALL MOVEMENT ANALYSIS METHOD AND DEVICE, AND STORAGE MEDIUM

ABSTRACT

The application discloses an eyeball movement analysis method and device and a storage medium. The method includes: acquiring a real-time image shot by a photographic device and extracting a real-time facial image from the real-time image; inputting the real-time facial image into a pretrained eye mean shape and recognizing n_1 orbit feature points and n_2 eyeball feature points representative of an eye position in the real-time facial image; determining an eye region according to the (n_1+n_2) feature points and judging whether the eye region is a human eye region or not by use of a human eye classification model; and if YES, calculating a movement direction and movement distance of an eyeball in the real-time facial image according to x and y coordinates of the n_1 orbit feature points and n_2 eyeball feature points in the real-time facial image. According to the application, movement information of the eyeball in the real-time facial image is calculated according to the coordinates of eye feature points to implement analysis about the eye region and real-time capturing of an eyeball movement.

Fig. 3