Real-time eye tracking and iris localization.

ABSTRACT

Robust, non-intrusive human eye detection problem has been a fundamental and challenging problem for computer vision area. Not only it is a problem of its own, it can be used to ease the problem of finding the locations of other facial features for recognition tasks and human-computer interaction purposes as well. Many previous works have the capability of determining the locations of the human eyes but the main task in this paper is not only a vision system with eye detection capability.Our aim is to design a real-time face tracker system and iris localization using edge point detection method indicates from image processing and circle fitting technique. As a result, our eye tracker system was successfully implemented using non-intrusive webcam with less error.

Keyword: Real-time face tracking; Iris localization; Image processing; Edge detection; Circle fitting.