Adaptive Real Time Eye-Blink Detection System

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Abstract

The eye is one of the sense organs that can give users better interaction closer to their need by observing the change of the eyes (open or closed). It is considered as a rich source for gathering information on our daily life. So, it is used in computer science area, especially in human computer interaction. This paper proposes a new system for detecting eye blinks accurately without any restriction on the background and the user does not have to wear any sensors or marks. No manual initialization is required in our proposed system. The proposed system works with the online and offline environment. It automatically classifies the eye as either open or closed at each video frame. The proposed system is tested with the users who wear glasses and the experiments proved its applicability. The proposed system is very easy to configure and use. It is totally non-intrusive and it only requires one low-cost web camera and computer.

References

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**Index Terms**

Computer Science

Pattern Recognition

**Keywords**

Face Detection  Eye Detection  Blink Detection.