Title (en)

METHOD AND CIRCUIT ARRANGEMENT FOR RECOGNISING AND TRACKING EYES OF SEVERAL OBSERVERS IN REAL TIME

Title (de)

VERFAHREN UND SCHALTUNGSANORDNUNG ZUM ERKENNEN UND VERFOLGEN VON AUGEN MEHRERER BETRACHTER IN ECHTZEIT

Title (fr)

PROCEDE ET CIRCUIT POUR IDENTIFIER ET SUIVRE LES YEUX DE PLUSIEURS OBSERVATEURS EN TEMPS REEL

Publication

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Application

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Abstract (en)

[origin: WO2007019842A2] The invention relates to a method and to a circuit arrangement for recognising and for tracking, in a contact-free manner, eye positions of several users in real time. The input data comprises a sequence of digital video frames. Said method comprises the following steps: combining a face-finder-instance which is used to examine faces, an eye-finder-instance which is used to examine eye areas, and an eye-tracker-instance which is used to recognise and track eye reference points. The aim of the invention is to convert the eye positions within a hierarchical outlet of the instance to the target, which successively restricts the dataset, which is to be processed, emerging from the dataset of the entire video frame (VF) in order to form a face target area (GZ) and subsequently an eye target area (AZ). Also, an instance or a group of instances, which run in a parallel manner, are carried out, respectively, on a calculating unit thereof.

IPC 8 full level

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