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(81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX,

(54) Title: DRIVER ATTENTIVENESS MONITORING METHOD AND APPARATUS, AND ELECTRONIC DEVICE

(54) 发明名称: 驾驶员注意力监测方法和装置及电子设备

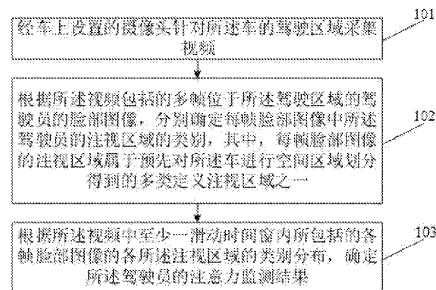


图 1

- 101 Collect a video for a driving area of a vehicle by means of a vehicle-mounted camera
- 102 Respectively determine a classification of a gaze area of a driver in each facial image frame according to multiple facial image frames of the driver in the driving area that are comprised in the video, wherein the gaze area of each facial image frame belongs to one of multiple classifications of defined gaze areas obtained by performing spatial area division on the vehicle in advance
- 103 Determine an attentiveness monitoring result of the driver according to classification distribution of the gaze areas of the facial image frames comprised in at least one sliding time window in the video

(57) Abstract: Disclosed in the present application are a driver attentiveness monitoring method and apparatus, and an electronic device. The method comprises: collecting a video for a driving area of a vehicle by means of a vehicle-mounted camera; respectively determining a classification of a gaze area of a driver in each facial image frame according to multiple facial image frames of the driver in the driving area that are comprised in the video, wherein the gaze area of each facial image frame belongs to one of multiple classifications of defined gaze areas obtained by performing spatial area division on the vehicle in advance; and determining an attentiveness monitoring result of the driver according to classification distribution of the gaze areas of the facial image frames comprised in at least one sliding time window in the video.

(57) 摘要: 本申请公开了一种驾驶员注意力监测方法和装置及电子设备。该方法包括: 经车上设置的摄像头针对所述车的驾驶区域采集视频; 根据所述视频包括的多帧位于所述驾驶区域的驾驶员的脸部图像, 分别确定每帧脸部图像中所述驾驶员的注视区域的类别, 其中, 每帧脸部图像的注视区域属于预先对所述车进行空间区域划分得到的多类定义注视区域之一; 根据所述视频中至少一滑动时间窗内所包括的各帧脸部图像的各所述注视区域的类别分布, 确定所述驾驶员的注意力监测结果。

[见续页]

MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL,
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