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**(54) Title (EN):** PULSE WAVE DETECTION METHOD AND DEVICE, AND ELECTRONIC DEVICE

**(54) Title (FR):** PROCÉDÉ ET DISPOSITIF DE DÉTECTION D'ONDE PULSATILE ET DISPOSITIF ÉLECTRONIQUE

**(54) Title (ZH):** 一种检测脉搏波的方法、装置和电子设备

**(57) Abstract:**

**(EN):** A pulse wave detection method and device, and an electronic device, the method comprising: acquiring grayscale change curves of three colors from a video of a region of interest; decomposing the grayscale change curve into one or more independent components by means of independent component analysis; and determining a pulse wave from the one or more independent components according to the amplitude or periodicity of the one or more independent components.

**(FR):** L'invention concerne un procédé et un dispositif de détection d'onde pulsatile et un dispositif électronique, le procédé consistant à : acquérir des courbes de changement d'échelle de gris de trois couleurs à partir d'une vidéo d'une région d'intérêt ; décomposer la courbe de changement d'échelle de gris en une ou plusieurs composantes indépendantes au moyen d'une analyse de composantes indépendantes ; et déterminer une onde pulsatile à partir de ladite une ou desdites plusieurs composantes indépendantes en fonction de l'amplitude ou de la périodicité de ladite une ou desdites plusieurs composantes indépendantes.

**(ZH):** 一种检测脉搏波的方法、装置和电子设备,该方法包括:从感兴趣区域的视频中获取三种颜色的灰度变化曲线;通过独立成分分析将灰度变化曲线分解为一个或多个独立成分;根据一个或多个独立成分的幅值或周期性,从一个或多个独立成分确定所述脉搏波。

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