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(54) Title: OBJECT RECOGNITION METHOD AND APPARATUS, ELECTRONIC DEVICE, COMPUTER READABLE STORAGE MEDIUM AND COMPUTER PROGRAM PRODUCT

(54) 发明名称: 对象识别方法、装置、电子设备、计算机可读存储介质和计算机程序产品

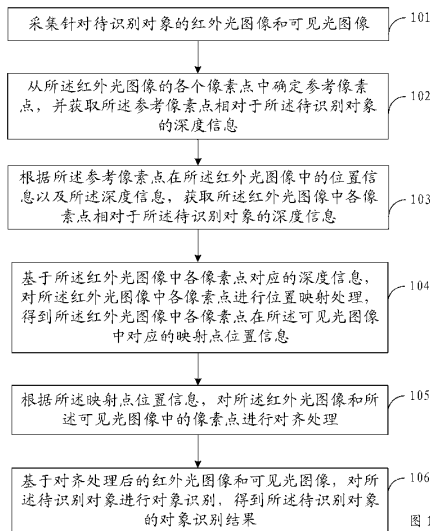


图 1b

- 101 Collect an infrared light image and a visible light image for an object to be recognized
102 Determine a reference pixel point from among pixel points in the infrared light image, and obtain depth information of the reference pixel point with respect to said object
103 Obtain, according to position information of the reference pixel point in the infrared light image and the depth information, depth information of each pixel point in the infrared light image with respect to said object
104 Perform position mapping processing on each pixel point in the infrared light image on the basis of the corresponding depth information of each pixel point in the infrared light image to obtain corresponding mapping point position information of each pixel point in the infrared light image in the visible light image
105 Perform alignment processing on the pixel points in the infrared light image and the visible light image according to the mapping point position information
106 Perform, on the basis of the infrared light image and the visible light image subjected to alignment processing, object recognition on said object to obtain an object recognition result of said object

(57) Abstract: The present application discloses an object recognition method and apparatus, an electronic device, a computer readable storage medium and a computer program product, applied to various scenarios such as cloud technology, artificial intelligence, and intelligent transportation. The method comprises: determining a reference pixel point from among pixel points in an infrared light image, and obtaining depth information of the reference pixel point; obtaining depth information of each pixel point in the infrared

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light image according to position information of the reference pixel point and the depth information; performing position mapping processing on each pixel point in the infrared light image on the basis of the corresponding depth information of each pixel point to obtain corresponding mapping point position information in a visible light image; performing alignment processing on the pixel points in the infrared light image and the visible light image according to the mapping point position information; and performing, on the basis of the infrared light image and the visible light image subjected to alignment processing, object recognition on an object to be recognized to obtain an object recognition result.

(57) 摘要: 本申请公开了一种对象识别方法、装置、电子设备、计算机可读存储介质和计算机程序产品, 可应用于云技术、人工智能、智慧交通等各种场景; 可以从红外光图像的各个像素点中确定参考像素点, 并获取参考像素点的深度信息; 根据参考像素点的位置信息以及深度信息, 获取红外光图像中各像素点的深度信息; 基于各像素点对应的深度信息对红外光图像中各像素点进行位置映射处理, 得到在可见光图像中对应的映射点位置信息; 根据映射点位置信息, 对红外光图像和可见光图像中的像素点进行对齐处理; 基于对齐处理后的红外光图像和可见光图像对待识别对象进行对象识别, 得到对象识别结果。