

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(43) 国际公布日
2020 年 2 月 6 日 (06.02.2020)

(10) 国际公布号
WO 2020/024691 A1

(51) 国际专利分类号:
G06K 9/00 (2006.01)

(21) 国际申请号: PCT/CN2019/089187

(22) 国际申请日: 2019 年 5 月 30 日 (30.05.2019)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
201810865617.8 2018 年 8 月 1 日 (01.08.2018) CN

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(54) **Title:** ABNORMALITY DETECTION METHOD, APPARATUS AND DEVICE IN UNMANNED SETTLEMENT SCENARIO

(54) 发明名称: 无人结算场景中异常检测方法、装置及设备

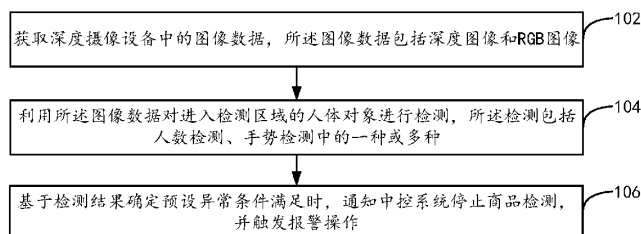


图 1

- 102 Acquire image data in a depth photography device, wherein the image data comprises a depth image and an RGB image
- 104 Use the image data to detect a human body object entering a detection region, wherein the detection comprises one or more of detection processes for the number of people and for gestures
- 106 When it is determined, according to a detection result, that a preset abnormality condition is satisfied, notify a central control system of stopping commodity detection, and trigger an alarm operation

(57) **Abstract:** Provided are an abnormality detection method, apparatus and device in an unmanned settlement scenario. According to the embodiment of the present description, by means of providing, in an unmanned settlement scenario, a depth photography device, a photography region of which at least comprises a detection region, a human body object entering the detection region can be detected by using image data acquired from the depth photography device; and since the image data comprises a depth image and an RGB image, and the detection region is a region in which a commodity to be settled is detected before settlement is carried out, determination on whether the number of people in the detection region is abnormal or whether a human body gesture is abnormal can be realized by at least using the depth image and the RGB image, and whether to notify a central control system of stopping commodity detection and to trigger an alarm operation are then determined, thus avoiding losses caused by abnormal situations of customers or merchants.

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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, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW。

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本国际公布:

— 包括国际检索报告 (条约第21条(3))。

(57) 摘要: 本说明书实施例提供一种无人结算场景中异常检测方法、装置及设备, 本说明书实施例通过在无人结算场景中设置拍摄区域至少包括检测区域的深度摄像设备, 可以利用从深度摄像设备中获取的图像数据, 对进入检测区域的人体对象进行检测, 由于图像数据包括深度图像和RGB图像, 检测区域是结算前对待结算商品进行检测的区域, 从而可以实现至少利用深度图像和RGB图像判断检测区域的人数是否异常或人体手势是否异常, 进而决定是否通知中控系统停止商品检测以及触发报警操作, 避免异常情况给顾客或商家造成的损失。