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(54) Title: IMAGE PROCESSING METHOD AND COMPUTING DEVICE

(54) 发明名称: 图像处理方法及计算设备

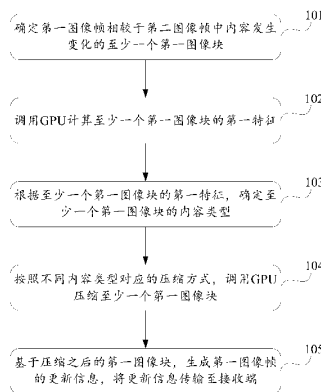


图 1

(57) Abstract: Provided in the embodiments of the present application are an image processing method and a computing device, the method comprising: determining at least one first image block, in which the content of a first image frame changes relative to a second image frame; calling a graphics processing unit to compute a first feature of the at least one first image block; determining a content type of the at least one first image block according to the first feature of the at least one first image block; calling, according to compression modes corresponding to different content types, the graphics processing unit to compress the at least one first image block; and generating update information of the first image frame on the basis of the compressed at least one first image block, and transmitting the update information to a receiving end, wherein the update information is used for combining the second image frame to obtain the first image frame. The technical solution provided in the embodiments of the present application improves the image transmission efficiency, reduces the CPU overhead, and improves the CPU performance.

- 101 Determine at least one first image block, in which the content of a first image frame changes relative to a second image frame
102 Call a GPU to compute a first feature of the at least one first image block
103 Determine a content type of the at least one first image block according to the first feature of the at least one first image block
104 Call, according to compression modes corresponding to different content types, the GPU to compress the at least one first image block
105 Generate update information of the first image frame on the basis of the compressed first image block, and transmit the update information to a receiving end

BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,
HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO,
PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN,
TD, TG)。

根据细则4.17的声明:
— 关于申请人有权要求在先申请的优先权(细则
4.17(iii))

本国际公布:
— 包括国际检索报告(条约第21条(3))。

(57) 摘要: 本申请实施例提供一种图像处理方法及计算设备, 其中, 确定第一图像帧相较于第二图像帧中内容发生变化的至少一个第一图像块; 调用图形处理器计算所述至少一个第一图像块的第一特征; 根据所述至少一个第一图像块的第一特征, 确定所述至少一个第一图像块的内容类型; 按照不同内容类型对应的压缩方式, 调用所述图形处理器压缩所述至少一个第一图像块; 基于压缩之后的所述至少一个第一图像块, 生成所述第一图像帧的更新信息, 并将所述更新信息传输至接收端; 所述更新信息用以结合所述第二图像帧获得所述第一图像帧。本申请实施例提供技术方案提高了图像传输效率, 降低了CPU开销, 提升了CPU性能。