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(54) **Title:** DATA PROCESSING METHOD AND APPARATUS, AND DEVICE AND READABLE STORAGE MEDIUM

(54) 发明名称: 数据处理方法、装置、设备及可读存储介质

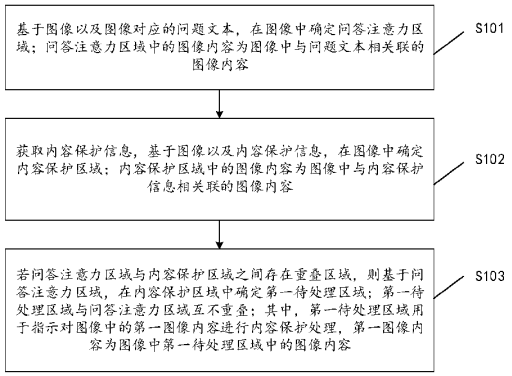


图 3

S101 On the basis of an image and a question text corresponding to the image, determine a question-answering attention region in the image, wherein image content in the question-answering attention region is image content in the image that is associated with the question text

S102 Acquire content protection information, and on the basis of the image and the content protection information, determine a content protection region in the image, wherein image content in the content protection region is image content in the image that is associated with the content protection information

S103 If there is an overlapping region between the question-answering attention region and the content protection region, on the basis of the question-answering attention region, determine, in the content protection region, a first region to be processed, wherein said first region does not overlap with the question-answering attention region, said first region is used for indicating the performing of content protection processing on first image content in the image, and the first image content is image content in said first region in the image

(57) **Abstract:** Disclosed in the present application are a data processing method and apparatus, and a device and a readable storage medium. The method comprises: on the basis of an image and a question text corresponding to the image, determining a question-answering attention region in the image, wherein image content in the question-answering attention region is image content in the image that is associated with the question text; on the basis of the image and content protection information, determining a content protection region in the image, wherein image content in the content protection region is image content in the image that is associated with the content protection information; and if there is an overlapping region between the question-answering attention region and the content protection region, on the basis of the question-answering attention region, determining, in the content protection region, a first region to be processed, wherein said first region does not overlap with the question-answering attention region, and said first region is used for indicating the performing of content protection processing on first image content in the image. The present application can appropriately

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SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UY, UZ, VC, VN, WS, 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))。

improve the security of content protection information while ensuring the accuracy of image question answering.

(57) 摘要: 本申请公开了一种数据处理方法、装置、设备及可读存储介质，该方法包括：基于图像以及图像对应的问题文本，在图像中确定问答注意力区域；问答注意力区域中的图像内容为图像中与问题文本相关联的图像内容；基于图像以及内容保护信息，在图像中确定内容保护区域；内容保护区域中的图像内容为图像中与内容保护信息相关联的图像内容；若问答注意力区域与内容保护区域之间存在重叠区域，则基于问答注意力区域，在内容保护区域中确定第一待处理区域；第一待处理区域与问答注意力区域互不重叠；其中，第一待处理区域用于指示对图像中的第一图像内容进行内容保护处理。本申请可以在保证图像问答准确率的同时，适当提高内容保护信息的安全性。