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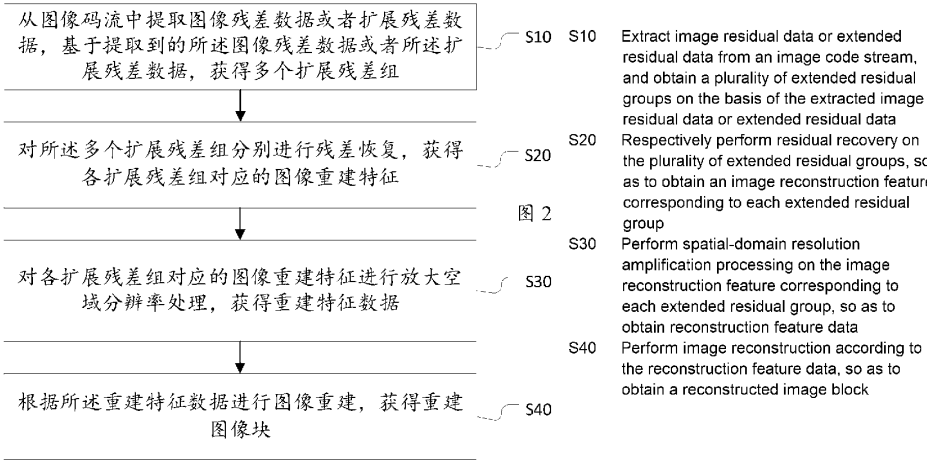
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(54) Title: IMAGE DECODING METHOD AND APPARATUS, IMAGE CODING METHOD AND APPARATUS, AND DEVICE AND STORAGE MEDIUM

(54) 发明名称: 图像解码和编码方法、装置、设备及存储介质



(57) Abstract: The present invention belongs to the technical field of image processing. Disclosed are an image decoding method and apparatus, an image coding method and apparatus, and a device and a storage medium. The image decoding method of the present application comprises: extracting image residual data or extended residual data from an image code stream, and obtaining a plurality of extended residual groups on the basis of the extracted image residual data or extended residual data; respectively performing residual recovery on the plurality of extended residual groups, so as to obtain an image reconstruction feature corresponding to each extended residual group; performing spatial-domain resolution amplification processing on the image reconstruction feature corresponding to each extended residual group, so as to obtain reconstruction feature data; and performing image reconstruction according to the reconstruction feature data, so as to obtain a reconstructed image block. Since acquired extended residual data is residual data which has been subjected to spatial-domain resolution reduction processing, residual recovery processing performed in groups on the entire

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group can be implemented at a low resolution, thereby improving the overall residual recovery calculation efficiency, and reducing the time complexity.

(57) 摘要: 本发明属于图像处理技术领域, 公开了一种图像解码和编码方法、装置、设备及存储介质。本申请通过从图像码流中提取图像残差数据或者扩展残差数据, 基于提取到的所述图像残差数据或者所述扩展残差数据, 获得多个扩展残差组; 对多个扩展残差组分别进行残差恢复, 获得各扩展残差组对应的图像重建特征; 对各扩展残差组对应的图像重建特征进行放大空域分辨率处理, 获得重建特征数据; 根据重建特征数据进行图像重建, 获得重建图像块。由于获取到的扩展残差数据为经过缩小空域分辨率处理的残差数据, 可以实现低分辨率下分组整组进行残差恢复处理, 由此提高了整体的残差恢复计算效率, 降低了时间复杂度。