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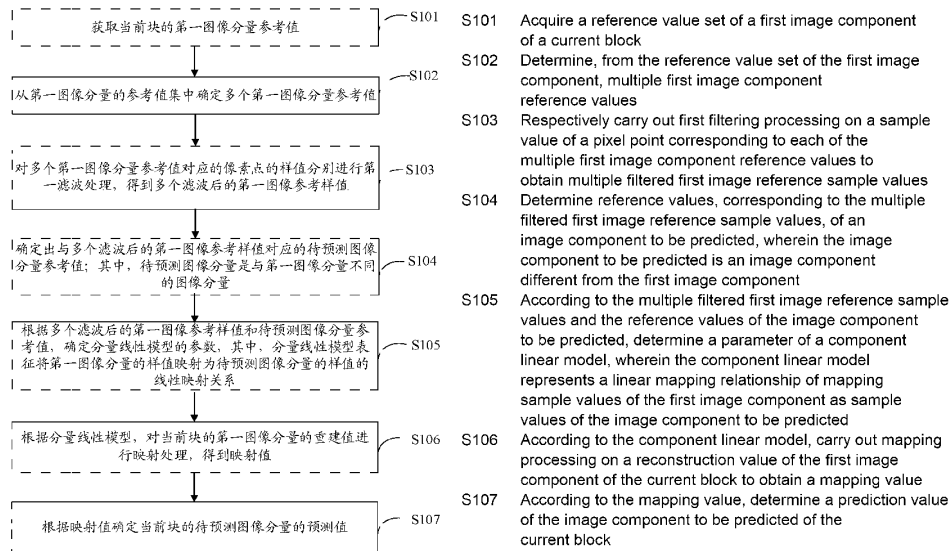
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(54) **Title:** VIDEO IMAGE COMPONENT PREDICTION METHOD AND APPARATUS, AND COMPUTER STORAGE MEDIUM

(54) 发明名称: 视频图像分量预测方法及装置、计算机存储介质



(57) **Abstract:** Provided are a video image component prediction method and apparatus, and a computer storage medium. The method may comprise: acquiring a reference value set of a first image component of a current block; determining, from the reference value set of the first image component, multiple first image component reference values; respectively carrying out first filtering processing on a sample value of a pixel point corresponding to each of the multiple first image component reference values to obtain multiple filtered first image reference sample values; determining reference values, corresponding to the multiple filtered first image reference sample values, of an image component to be predicted, wherein the image component to be predicted is an image component different from the first image component; according to the multiple filtered first image reference sample values and the reference values of the image component to be predicted, determine a parameter of a component linear model, wherein the component linear model represents a linear mapping relationship of mapping sample values of the first image component as sample values of the image component to be predicted; according to the component linear model, carry out mapping processing on a reconstruction value of the first image component of the current block to obtain a mapping value; according to the mapping value, determine a prediction value of the image component to be predicted of the current block

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values, of an image component to be predicted; according to the multiple filtered first image reference sample values and the reference values of the image component to be predicted, determining a parameter of a component linear model; according to the component linear model, carrying out mapping processing on a reconstruction value of the first image component of the current block to obtain a mapping value; and according to the mapping value, determining a prediction value of the image component to be predicted of the current block.

(57) 摘要: 本申请实施例提供了一种视频图像分量预测方法及装置、计算机存储介质, 该方法可以包括: 获取当前块的第一图像分量的参考值集; 从第一图像分量的参考值集中确定多个第一图像分量参考值; 对多个第一图像分量参考值对应的像素点的样值分别进行第一滤波处理, 得到多个滤波后的第一图像参考样值; 确定与多个滤波后的第一图像参考样值对应的待预测图像分量参考值; 根据多个滤波后的第一图像参考样值和待预测图像分量参考值, 确定分量线性模型的参数; 根据分量线性模型, 对当前块的第一图像分量的重建值进行映射处理, 得到映射值; 根据映射值确定当前块的待预测图像分量的预测值。