

ABSTRACT

The present disclosure relates to the technical field of image processing and discloses an image decoding and encoding method and apparatus, a device and a storage medium. In the present disclosure, feature channel distinguishing information and/or spatial point distinguishing information are obtained, and image code streams are decoded to obtain quantized residual values; an inverse quantization precision parameter value is set for each quantized residual value according to the feature channel distinguishing information and/or the spatial point distinguishing information; inverse quantization is performed on the quantization residual values according to the inverse quantization precision parameter values to obtain reconstructed residual values; synthetic transformation is performed on the reconstructed residual values to obtain a reconstructed image block. Since corresponding inverse quantization precision parameter values are constructed based on the feature channel distinguishing information and/or the spatial point distinguishing information for inverse quantization, during the encoding process, different quantization parameter values can also be set according to the different feature channels and spatial point image textures, such that more important features are subject to smaller quantization losses, which improves the performance of encoding and decoding.