

ABSTRACT

The present disclosure belongs to the field of image processing technologies, and in particular, to an image decoding method and apparatus, an image coding method and apparatus, a device and a storage medium. The image decoding method of the present
5 disclosure includes: extracting image residual data or extended residual data from an image bitstream, and obtaining a plurality of extended residual groups based on the extracted image residual data or extended residual data; obtaining respective image reconstruction features corresponding to the extended residual groups by performing residual restoration on each of the plurality of extended residual groups; obtaining reconstructed feature data by performing
10 spatial resolution amplification processing on the respective image reconstruction features corresponding to the extended residual groups; and obtaining a reconstructed image block by performing image reconstruction according to the reconstructed feature data. Since the obtained extended residual data has undergone spatial resolution reduction processing, residual restoration processing can be performed on entire groups at a lower resolution,
15 thereby improving the overall computational efficiency of residual restoration and reducing time complexity.