

ABSTRACT

Provided are an audio coding method and apparatus, an audio decoding method and apparatus, and an electronic device, a storage medium, a computer program product and a computer program. The audio coding method comprises: performing grouping on a sound channel sequence, so as to obtain a plurality of sound channel groups, wherein each sound channel group comprises several successive sound channels in the sound channel sequence, and there is one or more identical sound channels between adjacent sound channel groups; performing frame-based frequency domain transformation on an audio signal of each sound channel in the sound channel sequence, so as to obtain a frequency domain coefficient of each sound channel per frame; according to the frequency domain coefficient of each sound channel, determining, from a transformation matrix set, a target transformation matrix of each frequency band in a frequency band set corresponding to each sound channel group; on the basis of the target transformation matrix of each frequency band, performing intra-frequency-band decorrelation processing on the frequency domain coefficients of the sound channels in each sound channel group, so as to obtain coding information of each sound channel group; and obtaining a coded code stream on the basis of the coding information of each sound channel group, and sending the coded code stream to a decoder for decoding.

Fig. 1