

ENCODING AND DECODING METHODS AND DEVICES

ABSTRACT

The present invention provides a method for encoding an intra-frame prediction mode, including: obtaining an intra-frame prediction mode of a current intra-frame encoding block
5 from a preset prediction mode set; obtaining reference prediction modes of the current intra-frame encoding block, where the reference prediction modes are intra-frame prediction modes of available adjacent blocks of the current intra-frame encoding block or prediction modes in a preset backup reference mode set; writing a first flag bit into a code stream according to the reference prediction modes and the intra-frame prediction mode; and, when
10 the intra-frame prediction mode of the encoding block is different from all the reference prediction modes, obtaining a prediction mode encoding value according to a size relationship between the value of the intra-frame prediction mode and values of the reference prediction modes, and encoding the prediction mode encoding value. By using the encoding method provided by the present invention, judgment logic of an encoding end can be saved,
15 and thereby the encoding efficiency is improved. The present invention further provides a corresponding decoding method and corresponding encoding and decoding apparatuses.

FIGURE 1