CLAIMS

1. A video decoding method comprising:

~~determining, based on encoding~~obtaining reference sample information for determining locations of adjacent pixels to be used as reference samples of a current transform block~~, whether an intra prediction mode of~~ ;

determining the reference samples of the current transform block ~~is to be determined from an intra prediction mode candidate list obtained by~~ using ~~a plurality of pieces of prediction mode~~the reference sample information ~~of adjacent blocks~~, wherein the reference samples are determined from first adjacent ~~to~~ pixels located in a pixel line in contact with one of a top boundary and a left boundary of the current transform block~~;~~ and second adjacent pixels in a pixel line at a distance from one of the top boundary and the left boundary of the current transform block;

when the reference samples are determined from the second adjacent pixels in the pixel line at the distance from the one of the top boundary and the left boundary of the current transform block, determining that a planar mode is not used as an intra prediction mode of a current coding block including the current transform block;

configuring an intra prediction mode candidate list including a plurality of candidate intra prediction modes without the planar mode, according to determining that the planar mode is not used as the intra prediction mode of the current ~~block is to be determined from the intra prediction mode candidate list,~~ coding block;

obtaining, from a bitstream, ~~intra prediction mode~~an index ~~information~~ indicating ~~one~~an intra prediction mode among the plurality of candidate intra prediction modes included in the intra prediction mode candidate list;

determining the intra prediction mode of the current coding block ~~by~~ using the ~~obtained intra prediction mode~~ index ~~information~~; and

performing intra prediction on the current transform block ~~by~~ using the intra prediction mode of the current coding block~~,~~

~~wherein the encoding information comprises reference sample information indicating a reference sample among an adjacent pixel that is directly adjacent to the current block and an adjacent pixel that is not directly adjacent to the current block,~~

~~wherein the determining whether the intra prediction mode of the current block is to be determined from the intra prediction mode candidate list comprises, when the~~

~~reference sample information indicates that the adjacent pixel that is directly adjacent to the current block is to be used as the reference sample of the current block, obtaining intra prediction mode candidate list flag information indicating whether the intra prediction mode candidate list is used, from the bitstream,~~

~~2. The video decoding method of claim 1, wherein the determining whether the intra prediction mode of the current block is to be determined from the intra prediction mode candidate list further comprises, when the reference sample information indicates that the adjacent pixel that is not directly adjacent to the current block is to be used as the reference sample of the current block, determining the intra prediction mode of the current block from the intra prediction mode candidate list.~~

~~3. The video decoding method of claim 1, wherein the obtaining of the intra prediction mode index information from the bitstream comprises obtaining non-angular intra prediction mode information indicating whether the intra prediction mode of the current block is a particular non-angular intra prediction mode, and when the non-angular intra prediction mode information does not indicate the particular non-angular intra prediction mode, obtaining the intra prediction mode index information from the bitstream.~~

~~4. The video decoding method of claim 3, wherein the particular non-angular intra prediction mode is one of a DC mode and a planar mode.~~

~~5. The video decoding method of claim 3, wherein, when the non-angular intra prediction mode information indicates the particular non-angular intra prediction mode, the intra prediction mode of the current block is determined to be the particular non-angular intra prediction mode.~~

~~6. The video decoding method of claim 1, further comprising, when the intra prediction mode of the current block is not determined from the intra prediction mode candidate list, obtaining intra prediction mode information of the current block from the bitstream.~~

7. The video decoding method of claim 1, wherein the intra prediction mode candidate list comprises a predetermined number of candidate intra prediction modes determined by using a prediction mode of an adjacent block adjacent in a right side of the current block and a prediction mode of an adjacent block adjacent in an upper side of the current block.

8. A video decoding apparatus comprising:

a memory; and

at least one processor connected to the memory and configured to:

determine, based on encoding information of a current block, whether an intra prediction mode of the current block is to be determined from an intra prediction mode candidate list obtained by using a plurality of pieces of prediction mode information of adjacent blocks adjacent to the current block;

when the intra prediction mode of the current block is to be determined from the intra prediction mode candidate list, obtain, from a bitstream, intra prediction mode index information indicating one of candidate intra prediction modes comprised in the intra prediction mode candidate list;

determine the intra prediction mode of the current block by using the obtained intra prediction mode index information; and

perform intra prediction on the current block by using the intra prediction mode of the current block,

wherein the encoding information comprises reference sample information indicating a reference sample among an adjacent pixel that is directly adjacent to the current block and an adjacent pixel that is not directly adjacent to the current block,

wherein, when the reference sample information indicates that the adjacent pixel that is directly adjacent to the current block is to be used as the reference sample of the current block, the at least one processor obtains intra prediction mode candidate list flag information indicating whether the intra prediction mode candidate list is used, from the bitstream.

9. The video decoding apparatus of claim 8,

wherein, when the reference sample information indicates that an adjacent pixel that is directly adjacent to the current block is to be used as a reference sample

~~of the current block, the at least one processor obtains intra prediction mode candidate list flag information from the bitstream, the intra prediction mode candidate list flag information indicating whether the intra prediction mode of the current block is to be determined from the intra prediction mode candidate list obtained by using the plurality of pieces of prediction mode information of the adjacent blocks adjacent to the current block.~~

~~10. The video decoding apparatus of claim 8, wherein the at least one processor is further configured to obtain non-angular intra prediction mode information indicating whether the intra prediction mode of the current block is a particular non-angular intra prediction mode, and when the non-angular intra prediction mode information does not indicate the particular non-angular intra prediction mode, obtain the intra prediction mode index information from the bitstream.~~

~~11. The video decoding apparatus of claim 10, wherein the particular non-angular intra prediction mode is one of a DC mode and a planar mode.~~

~~12. The video decoding apparatus of claim 10, wherein, when the non-angular intra prediction mode information indicates the particular non-angular intra prediction mode, the intra prediction mode of the current block is determined to be the particular non-angular intra prediction mode.~~

~~13. The video decoding apparatus of claim 8, wherein, when the intra prediction mode of the current block is not determined from the intra prediction mode candidate list, the at least one processor is further configured to obtain intra prediction mode information of the current block from the bitstream.~~

~~14. The video decoding apparatus of claim 8, wherein the intra prediction mode candidate list comprises a predetermined number of candidate intra prediction modes determined by using a prediction mode of an adjacent block adjacent in a right side of the current block and a prediction mode of an adjacent block adjacent in an upper side of the current block.~~

~~15. A video encoding method comprising:~~

~~determining an intra prediction mode of a current block;~~

~~determining, based on encoding information of the current block, whether the intra prediction mode of the current block is to be determined from an intra prediction mode candidate list obtained by using a plurality of pieces of prediction mode information of adjacent blocks adjacent to the current block; and~~

~~when the intra prediction mode of the current block is to be determined from the intra prediction mode candidate list, generating a bitstream comprising intra prediction mode index information indicating one of candidate intra prediction modes comprised in the intra prediction mode candidate list,~~

~~wherein the encoding information comprises reference sample information indicating a reference sample among an adjacent pixel that is directly adjacent to the current block and an adjacent pixel that is not directly adjacent to the current block,~~

~~wherein the determining whether the intra prediction mode of the current block is to be determined from the intra prediction mode candidate list comprises, when the reference sample information indicates that the adjacent pixel that is directly adjacent to the current block is to be used as the reference sample of the current block, adding intra prediction mode candidate list flag information indicating whether the intra prediction mode candidate list is used, to the bitstream.~~

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