

CLAIMS

1. A method of video processing, comprising:
performing a conversion between a video comprising one or more video regions comprising one or more luma blocks and one or more chroma blocks and a coded representation of the video according to a rule;
wherein the rule specifies that a chroma block from the one or more chroma blocks having a size $M \times N$ is disallowed to be represented in the coded representation using an intra mode or an intra block copy mode, wherein M and N are integers that indicate a width and a height of the chroma block, respectively;
wherein the intra mode includes encoding the chroma block based on previously encoded or reconstructed video blocks, and
wherein the intra block copy mode includes encoding the chroma block using at least a block vector pointing to a video frame containing a video region.
2. The method of claim 1, wherein the rule specifies that the chroma block having a size of $2 \times N$ is disallowed due to the video region being partitioned as a dual tree partition.
3. The method of claim 2, wherein the rule specifies that a vertical BT (binary tree) split is disabled for the chroma block in case that i) a tree type of the chroma block is equal to a dual tree type and ii) M is equal to 4 chroma samples.
4. The method of claim 2, wherein the rule specifies that a vertical TT (ternary tree) split is disabled for the chroma block in case that i) a tree type of the chroma block is equal to a dual tree type and ii) M is equal to 8 chroma samples.
5. The method of claim 1, wherein the rule specifies that the chroma block having a size of $2 \times N$ is disallowed due to the video region being partitioned as a single tree partition.

6. The method of claim 5, wherein, for a $M \times N$ coding tree node with a vertical BT (binary tree) split, the vertical BT split is disallowed for the chroma block having a size of $4 \times N$ or $4 \times (N/2)$ but allowed for a luma block having a size of $8 \times N$.
7. The method of claim 5, wherein for a $M \times N$ coding tree node with a vertical BT (binary tree) split, the vertical BT split is disallowed for the chroma block having a size of $4 \times N$ or $4 \times (N/2)$.
8. The method of claim 5, wherein, for a $M \times N$ coding tree node with a vertical BT (binary tree) split, the vertical BT split is allowed for the chroma block having a size of $4 \times N$ or $4 \times (N/2)$ and a luma block having a size of $8 \times N$, and wherein the chroma block and the luma block are not coded with the intra mode.
9. The method of claim 5, wherein, for a $M \times N$ coding tree node with a vertical TT (ternary tree) split, the vertical TT split is disallowed for the chroma block having a size of $8 \times N$ or $8 \times (N/2)$ but allowed for a luma block having a size of $16 \times N$.
10. The method of claim 5, wherein for a $M \times N$ coding tree node with a vertical TT (ternary tree) split, the vertical TT split is disallowed for the chroma block having a size of $8 \times N$ or $8 \times (N/2)$.
11. The method of claim 5, wherein, for a $M \times N$ coding tree node with a vertical TT (ternary tree) split, the vertical TT split is allowed for the chroma block having a size of $8 \times N$ or $8 \times (N/2)$ and a luma block having a size of $16 \times N$, and wherein the chroma block and the luma block are not coded with the intra mode.
12. A method of video processing, comprising:
determining, for a conversion between a video region of a video and a coded representation of the video, to use a combined inter and intra prediction (CIIP) mode as an intra mode or an inter mode according to a rule; and

performing the conversion based on the determining, and
wherein the CIIP mode include combining an intra prediction signal and a inter prediction signal using weighted coefficients.

13. The method of claim 12, wherein the rule specifies to use the CIIP mode as the intra mode due to a dual tree partitioning used in the video region.

14. The method of claim 12, wherein the rule specifies to use the CIIP mode as the inter mode.

15. The method of claim 14, wherein the rule specifies to disable the CIIP mode due to a chroma block having a width equal to M.

16. The method of claim 12, wherein the rule specifies to restrict intra prediction modes for a chroma block coded with the CIIP mode to the intra mode.

17. The method of claim 16, wherein the intra prediction modes includes an intra_DC, intra_angular18 mode, or an intra_angular50 mode.

18. The method of claim 16, wherein the chroma block width is equal to 2.

19. A method of video processing, comprising:

performing a conversion between a chroma block of a video and a coded representation of the video,

wherein the chroma block is represented in the coded representation using an intra coding mode according to a size rule;

wherein the size rule specifies that the intra coding mode is from a first set of intra coding mode types, in case that a width of the chroma block is equal to M or a height of the chroma block is equal to N, where M and N are integers; otherwise the intra coding mode is from a second set of intra coding mode types.

20. The method of claim 19, wherein $M = 2$ or $N = 2$.
21. The method of claim 19 or 20, wherein the first set of intra coding mode types is a subset of all allowed intra coding mode types in the conversion.
22. The method of claim 19 or 20, wherein the first set of intra coding mode types corresponds to an INTRA_DC mode.
23. The method of claim 19 or 20, wherein the first set of intra coding mode types corresponds to an INTRA_PLANAR mode.
24. The method of claim 19 or 20, wherein the first set of intra coding mode types corresponds to an INTRA_ANGULAR18 mode.
25. The method of claim 19 or 20, wherein the first set of intra coding mode types corresponds to an INTRA_ANGULAR50 mode.
26. The method of claim 19 or 20, wherein the rule specifies that a CCLM mode that uses a linear mode to derive prediction values of a chroma component from another component is disallowed.
27. A method of video processing, comprising:
performing a conversion between a chroma block of a video and a coded representation of the video,
wherein the chroma block is represented in the coded representation using a transform type according to a rule;
wherein the rule specifies that the transform type is from a first set of transform types in case that a width of the chroma block is equal to M or a height of the chroma block is equal to N , where M and N are integers; otherwise the transform type is from a second set of transform types.

28. The method of claim 27, wherein M is 2 or N is 2.
29. The method of any one of claims 1-11, 15, 19-28, wherein M and/or N is predefined or signaled.
30. The method of claim 29, wherein M and/or N is dependent on a color format of the video region.
31. The method of any of claims 1 to 30, wherein the conversion includes encoding the video into the coded representation.
32. The method of any of claims 1 to 30, wherein the conversion includes decoding the coded representation to generate the video.
33. A video processing apparatus comprising a processor configured to implement a method recited in any one or more of claims 1 to 32.
34. A computer readable medium storing program code that, when executed, causes a processor to implement a method recited in any one or more of claims 1 to 32.