CONTEXT CODING FOR TRANSFORM SKIP MODE

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a national phase of International Patent Application NO. PCT/US2020/028808, filed on April 17, 2020, which claims the priority to and benefits of International Patent Application No. PCT/CN2019/083366, filed on April 19, 2019. The aforementioned patent applications are hereby incorporated by reference in their entireties.

TECHNICAL FIELD

[0002] This document is related to video and image coding and decoding technologies, systems, and devices.

BACKGROUND

[0003] Digital video accounts for the largest bandwidth use on the internet and other digital communication networks. As the number of connected user devices capable of receiving and displaying video increases, it is expected that the bandwidth demand for digital video usage will continue to grow.

SUMMARY

[0004] Devices, systems and methods related to digital video coding, and specifically, to coefficient coding in transform skip mode for video coding are described. The described methods may be applied to both the existing video coding standards (e.g., High Efficiency Video Coding (HEVC)) and future video coding standards (e.g., Versatile Video Coding (VVC)) or codecs.

[0005] In one exemplary aspect, a method for visual media processing is disclosed. The method includes determining, for encoding one or more video blocks in a video region of a visual media data into a bitstream representation of the visual media data, a maximum allowed dimension up to which a current video block of the one or more video blocks is allowed to be encoded using a transform skip mode such that a residual of a prediction error between the current video block and a reference video block is represented in the bitstream representation without applying a transform; and including a syntax element indicative of the maximum allowed dimension in the bitstream representation.

[0006] In another exemplary aspect, a method for visual media processing is disclosed. The method includes parsing a syntax element from a bitstream representation of a visual media data comprising a video region comprising one or more video blocks, wherein the syntax element is indicative of a maximum allowed dimension up to which the current video block of the one or more blocks of a video region is allowed to be coded using a transform skip mode in which a residual of a prediction error