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Abstract

In the current VSEI working draft, the neural-network post-filter characteristics SEI message is defined on CVS and activated by the neural-network post-filter activation SEI message on PU. When there are some cases of activating all pictures in CVS, for example, in chroma format transformation, activating them for each picture is inefficient. Therefore, this contribution proposes alternative solutions. One method is to activate all pictures in the CVS, and the other is to activate pictures indicating the nuh\_layer\_id and the TemporalID of the NAL unit header.

Problem Statement

In the current working draft [1], the neural-network post-filter characteristics SEI message, which specifies a neural network, is defined on CVS. The neural network post-filter activation SEI message, which indicates a specific picture, is set on PU. In this contribution, we would like to reconsider methods for activation of the neural-network post-filter characteristics SEI message. There are some cases of activating all pictures in CVS, for example in chroma format transformation. In that case, activating them for each picture may be inefficient. Therefore, we would like to propose an activation solution activated by CVS, and another method activated by the nuh\_layer\_id and the TemporalId because of the different quantization parameter values for each nuh\_layer\_id and TemporalId generally.

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