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Title:

Non-EE2: Improvements on IBC-AMVP candidate list construction

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Purpose:

Proposal

Author(s) or
Contact(s):

H. Jeong | junghg2040@skku.edu (SKKU)

B. Jeon | bjeon@skku.edu | submitter (SKKU)

Source:

SKKU

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Abstract

This contribution proposes a TM-cost-based pre-filtering stage for non-adjacent and history candidates in regular IBC-AMVP candidate list construction. When no adjacent candidate is listed, up to two non-adjacent candidates with the lowest TM costs are added if such candidates are available; when adjacent candidate is already enlisted, only one non-adjacent candidate with the lowest TM cost is added. For the history candidates, only the candidate with the lowest TM cost is added. The subsequent clustering process remains unchanged. The proposed method achieves BDBR gain compared to ECM-19.1 as follows:

Class F: -0.03% (Y) / -0.13% (Cb) / -0.09% (Cr), Enc: .%, Dec: .%.

Introduction

In ECM-19.1, the regular IBC-AMVP candidate is derived in the following process.

Construct the IBC-AMVP candidate list by non-redundantly adding candidates from multiple sources, including adjacent, non-adjacent, temporal, history-based, auto-relocated, and pairwise candidates.

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CARD

<http://vexpertise.stbit.ru/documents/JVET-AP0233>



https://jvet-experts.org/doc_end_user/current_document.php?id=16897



https://jvet-experts.org/doc_end_user/documents/42_SantaEularia/wg11/JVET-AP0233-v2.zip



http://vexpertise.stbit.ru/meeting-notes/source/meeting_42_ap



JVET-AP0233 Non-EE2: Improvements on IBC-AMVP candidate list construction [H. Jeong, B. Jeon (SKKU)]

Class F: -0.03% (Y) / -0.13% (Cb) / -0.09% (Cr), Enc: 99.5%, Dec: 99.2%.

Not relevant to be considered.

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