

**Joint Video Experts Team (JVET)
of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC
29/WG 11**

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Title: AHG10: Performance of the GOP-based temporal filter in VTM-6.1

Status: Input document to JVET

Purpose: Proposal

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Abstract

The encoder-only GOP-based temporal filter proposed in JVET-O0549 was adopted in the previous meeting in Gothenburg. This contribution provides performance numbers by enabling the filter on top of VTM-6.1. The average Y/U/V BD-rates for the common test conditions (CTC) for the filter on top of VTM-6.1 are reported to be $-3.91\%/-6.63\%/-6.56\%$ (RA), $-0.96\%/-1.30\%/-2.18\%$ (LDB) and $-1.48\%/-1.61\%/-2.23\%$ (LDP). This can be compared to the numbers compared in JVET-O0549-v2: $-3.49\%/-6.96\%/-6.53\%$ (RA), $-1.00\%/-1.24\%/-2.24\%$ (LDB) and $-1.47\%/-1.95\%/-2.78\%$ (LDP).

The proponents are willing to arrange a subjective viewing at the meeting.

Background

The encoder-only GOP-based temporal filter proposed in JVET-O0549 was adopted in the previous meeting in Gothenburg. Filtering is applied to every 8th picture for random access coding and every 4th picture for low delay coding. The filter is not applied to all intra coding and therefore that test case is omitted from the results.

The overall filter strength, s_0 , is set according to the equation below for RA:

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LINKS

CARD

JVET-P0328

<http://vexpertise.stbit.ru/documents/JVET-P0328>

JVET Search

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AHG10: Performance of the GOP-based temporal filter in VTM-6.1

Authors:

ABSTRACT

MEETING NOTES

SOURCE

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Document Information

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Associated Resources

Comments

ARCHIVE

archive v2

https://jvet-experts.org/doc_end_user/documents/16_Geneva/wg11/JVET-P0328-v2.zip

Archive

DOC

JVET-P0328-v1.docx

PPT

JVET-P0328-v1.pptx

XLS

JVET-P0328-v1.xlsm

MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2019_10_P_Geneva/JVET-P_Notes_dG.docx

Joint Video Experts Team (JVET)
of ITU-T SG21 WP3/21 and ISO/IEC JTC 1/SC 29
16th Meeting: Geneva, October 2019

Document: JVET-P0328

Title: Meeting Report of the 41st Meeting of the Joint Video Experts Team

Status: Report document from the chair of JVET

Purpose: Report

1 Summary

MEETING NOTES

[JVET-P0328](#) AHG10: Performance of the GOP-based temporal filter in VTM-6.1 [J. Enhorn, R. Sjöberg, J. Ström, P. Wennersten (Ericsson)]

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J. Enhorn, R. Sjöberg, J. Ström, P. Wennersten, "AHG10: Performance of the GOP-based temporal filter in VTM-6.1", JVET-P0328, 16th Meeting: Geneva, October 2019.

REFERENCES

- [P. Wennersten, R. Sjöberg, J. Enhorn, "AHG10: Encoder-only GOP-based temporal filter", JVET-O0549, 15th Meeting: Gothenburg, SE, July 2019.](#)