

**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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18th Meeting: Teleconference, April 2020

Title: Crosscheck of JVET-R0293 (Fixes for 6-tap interpolation filtering for affine motion compensation)

Status: Input document to JVET

Purpose: Proposal

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Source: HHI

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Abstract

Contribution JVET-R0293 proposes to modify six of the 15 6-tap interpolation filters that are used for subpel interpolation filtering in affine inter predicted blocks. New filters are proposed for the fractional positions 4/16, 5/16, 6/16, 10/16, 11/16, and 12/16. The software provided by the proponents has been verified to match the text provided by the proponents. Coding efficiency results using the VTM-8.0 SDR Common Test Conditions (CTC) have also been confirmed. Additionally, the frequency responses of the proposed interpolation filters have been computed and plotted by the crosschecker. The resulting graphs match those provided in JVET-R0293.

Results

Results according to SDR common test conditions are provided below.

Frequency responses

Plots showing the graphs of the frequency responses of the proposed interpolation filters, the filters used in VTM-8.0 as well as the ideal filters can be found in the accompanying PDF file.

Built from JVET-R0475-v1.docx

LINKS

CARD

JVET-R0475

<http://vexpertise.stbit.ru/documents/JVET-R0475>

JVET Search

Martin Winken (m53904)

Crosscheck of JVET-R0293 (Fixes for 6-tap interpolation filtering for affine motion compensation)

Authors:

ABSTRACT

MEETING NOTES

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Document Information

Submitted by: Jorma Paavola Olli

Title: Crosscheck of JVET-R0293 (Fixes for 6-tap interpolation filtering for af

Authors: V. Sengul

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Associated Resources

Comments

ARCHIVE

archive v1

https://jvet-experts.org/doc_end_user/documents/18_Alpbach/wg11/JVET-R0475-v1.zip

Archive

DOC

JVET-R0475-v1.docx

XLS

JVET-R0475.xlsm

PDF

JVET-R0475_frequency_responses.pdf

MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2020_04_R_Alpbach/JVET-R_Notes_dH.docx

Joint Video Experts Team (JVET) of ITU-T SG21 WP3/21 and ISO/IEC JTC 1/SC 29

18th Meeting: Teleconference, April 2020

Document: JVET-R0475

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-R0475](#) Crosscheck of JVET-R0293 (Fixes for 6-tap interpolation filtering for affine motion compensation) [M. Winken (HHI)] [late]

CITATION

M. Winken, "Crosscheck of JVET-R0293 (Fixes for 6-tap interpolation filtering for affine motion compensation)", JVET-R0475, 18th Meeting: Teleconference, April 2020.

REFERENCES

- [K. Andersson, R. Yu, Z. Zhang, J. Ström, "Fixes for 6-tap interpolation filtering for affine motion compensation", JVET-R0293, 18th Meeting: Teleconference, April 2020.](#)