INTERNATIONAL ORGANISATION FOR STANDARDISATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC 1/SC 29/WG 4 MPEG VIDEO CODING

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Title:New depth maps for Barn, Breakfast, and Hall sequencesSource:Dawid Mieloch (Poznań University of Technology)

Abstract & Recommendations

The document presents the proposal of new IVDE-generated depth maps for Barn, Breakfast, and Hall sequences. New proposed depth maps for Hall are recommended for use in the MIV CTC, depth maps for Barn and Breakfast are recommended for purposes of the verification tests of MIV.

1 Introduction

The document presents the results of using new proposed depth maps for Barn, Breakfast, and Hall sequences. Depth maps were generated using IVDE 4.0 with non-CTC configuration in order to increase the quality of estimated depth.

2 **Experiments**

Below, the results of using TMIV 9.0 in A97 configuration are presented. The Anchor for Hall (T) is using CTC depth maps, while for Breakfast (Y) and Barn (Z) is using the depth maps from [1] and [2]. Y and Z were encoded using QPs from the Painter sequence.





P01 posetraces are available in the MPEG content server. Posetraces include the anchor posetraces and were divided into directories that include the comparison for high and low bitrates (with closely matching bitrates, or bitrate lower for the proposal). On request, all posetraces can be provided.

3 Recommendations:

New proposed depth maps for Hall are recommended for use in the MIV CTC, depth maps for Barn and Breakfast are recommended for purposes of the verification tests of MIV.

4 References:

[1] T.Tapie, A.Schubert, R.Gendrot, G.Briand, F.Thudor, R.Doré, "Barn new natural content proposal for MIV," ISO/IEC JTC 1/SC 29/WG 4 m56632, April 2021, Online.

[2] T.Tapie, A.Schubert, R.Gendrot, G.Briand, F.Thudor, R.Doré, "Breakfast new natural content proposal for MIV," ISO/IEC JTC 1/SC 29/WG 4 m56730, April 2021, Online.

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