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Coding of moving pictures and audio

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INTERNATIONAL ORGANISATION FOR STANDARDISATION
ORGANISATION INTERNATIONALE DE NORMALISATION
ISO/IEC JTC 1/SC 29/WG 11
CODING OF MOVING PICTURES AND AUDIO

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Title: G-PCC CE13.6: Attribute LoD generation

Abstract

Core experiment 13.6 intends to examine the neighbour search order used in constructing levels of detail for attribute coding.

Mandate

The mandate of the core experiment is to evaluate the LoD construction method [1] and to —

- examine the coding efficiency of the proposed method.

- examine the complexity of the proposed method.

Participants

Company	Contact	E-mail	Status
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Timeline

2019-11-01	Expected release of TMC13v8
2019-11-15	Distribution of CE software and results for verification
2019-12-01	CE verification feedback
2020-01-08	MPEG 129 document upload deadline
2020-01-13	MPEG 129, Brussels

Evaluation

All CTC [2] test conditions for TMC13 will be evaluated using category one and three content.

Description of proposals

m51010 – Search order in LoD generation

This contribution proposes to change the search order in LoD construction such that, neighbours in subsequent LoDs with the same distance from the current point are ordered first by direction, neighbours in the same LoD with the same distance from the current point are searched in forward order, and that neighbours in subsequent LoDs have a higher priority than neighbours in the same LoD.

References

[1] Z. Gao, D. Flynn, A. Tourapis, and K. Mammou, "[G-PCC][New proposal] Improved implementation of the Prediction and Lifting schemes," ISO/IEC JTC1/SC29/WG11, 128th meeting, Geneva, Tech. Rep. m51010, Oct. 2019.

[2] 3DG, "Common Test Conditions for PCC," ISO/IEC JTC1/SC29/WG11, 128th meeting, Geneva, Tech. Rep. w18883, Oct. 2019.

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