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Information technology — Coding of audio-visual objects —

Part 5: Reference software

AMENDMENT 32: Reference software for multi-resolution 3D mesh compression

Technologies de l'information — Codage des objets audiovisuels —

Partie 5: Logiciel de référence

AMENDEMENT 32: .

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 26 to ISO/IEC 14496-5:2001 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

This Amendment introduced a Reference Software for Multi-Resolution 3D Mesh Compression in 3DG Compression Model. This Amendment deals with the reference software of the MR3DMC in 3DGCM tool.

Add 7.x Reference Software for the Multi-Resolution 3D Mesh Compression (MR3DMC):

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Information technology — Coding of audio-visual objects —

Part 5:
Reference software

AMENDMENT 32: Reference software for multi-resolution 3D mesh compression

1.1 Reference Software for the Multi-resolution 3D mesh compression (MR3DMC)

1.1.1 Introduction

This is the description of the reference software for MR3DMC. In ISO/IEC 14496-5:2001/Amd.22, the general description of reference software for ISO/IEC 14496-25 (called as MP25) is explained. This Subclause describes MR3DMC method based on the MP25.

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1.1.2 Description of Classes

This Subclause describes the new classed added for MR3DMC.

Class	Files	Folder Structure	Description
PTFANDecoder	SC3DMC_PTFANDecoder.h	Libraries\MR3DMC\SC3DMC_DecoderLib\h	Class containing PTFAN decoding function
	SC3DMC_PTFANDecoder.cpp	Libraries\MR3DMC\SC3DMC_DecoderLib\cpp	
PTFANEncoder	SC3DMC_PTFANEncoder.h	Libraries\MR3DMC\SC3DMC_EncoderLib\h	Class containing PTFAN encoding function
	SC3DMC_PTFANEncoder.cpp	Libraries\MR3DMC\SC3DMC_EncoderLib\cpp	
ValenceConnectivityDecoder	ValenceConnectivityDecoder.h	Libraries\MR3DMC\SC3DMC_DecoderLib\h	Class containing valence-based connectivity decoding function
	ValenceConnectivityDecoder.cpp	Libraries\MR3DMC\SC3DMC_DecoderLib\cpp	
ValenceConnecitivytEncoder	ValenceConnectivityEncoder.h	Libraries\MR3DMC\SC3DMC_EncoderLib\h	Class containing valence-based connectivity encoding function
	ValenceConnectivityEncoder.cpp	Libraries\MR3DMC\SC3DMC_EncoderLib\cpp	
MR3DMC_Decoder	MR3DMC _Decoder.h	Libraries\MR3DMC\SC3DMC_Decoder	Main Class of MR3DMC decoder. It decodes the header and calls corresponding functions.
	MR3DMC_Decoder.cpp	Libraries\MR3DMC\ SC3DMC _Decoder	
MR3DMC_Encoder	MR3DMC_Encoder.h	Libraries\MR3DMC\SC3DMC_Encoder	Main Class of MR3DMC encoder. It decodes the header and calls corresponding functions.
	MR3DMC_Decoder.cpp	Libraries\MR3DMC\SC3DMC_Encoder	

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