## INTERNATIONAL ORGANISATION FOR STANDARDISATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC1/SC29/WG11 CODING OF MOVING PICTURES AND AUDIO

ISO/IEC JTC1/SC29/WG11 MPEG/M18506 October 2010, Guangzhou, China

Title Frame range extension of Poznan Street and Poznan Carpark

sequences (3DV/EE1)

Sub group Video

**Authors** Olgierd Stankiewicz (ostank@multimedia.edu.pl),

**Krzysztof Wegner** (kwegner@multimedia.edu.pl) and Poznań University of Technology, Chair of Multimedia Telecommunications and Microelectronics, Poznań, Poland

## 1 Introduction

This paper introduces extended frame range for Poznan Carkpark and Poznan Street sequences and is in response to EE1 described in w11477 [1] "Description of Exploration Experiments in 3D Video Coding" document.

## 2 Extended frame range

During the last meeting in Geneva it was concluded that the Poznan Street and Poznan Carpark sequences should be extended from 200 to 250 frames [1]. This imposed a need for modification of depth data for these sequences.

To meet those new requirements, and also reduce overall turmoil, the frame range has been extended in forward direction only, so that the configuration files (for depth estimation and vciew synthesis) remain mainly unchanged.

Unfortunatelly, 3D content in the extended range of frames (200..249) exceeds depth range that was previously. To cope that, disparity range has been changed as follows:

	Before	After
MinimumValueOfDisparitySearchRange	1	1
MaximumValueOfDisparitySearchRange	55	80
MinimumValueOfDisparityRange	1	1
MaximumValueOfDisparityRange	55	80
NearestDepthValue	-50.191107	-34.506386
FarthestDepthValue	-2760.510889	-2760.510889

Selected depth frames from new depth maps are presented below:

Frame	Poznan_Carpark	Poznan_Street
0		
50		
100		
150		
200		
249		

## 3 References

[1] "Description of Exploration Experiments in 3D Video Coding" MPEG 2010/W11477, Geneva, Switzerland, July 2010.