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Title	**3DV/FTV EE1 report on Poznan Carpark sequence - improved depth for extended range of frames**
Sub group	**Video**
Authors	**Olgierd Stankiewicz** (ostank@multimedia.edu.pl), **Krzysztof Wegner** (kwegner@multimedia.edu.pl) and **Marek Domański** (domanski@et.put.poznan.pl) Poznań University of Technology, Chair of Multimedia Telecommunications and Microelectronics, Poznań, Poland

1 Introduction

This paper introduces new depth data for extended range of frames for Poznan Carkpark sequence and is a response to EE1 described in N11630 [1] "Description of Exploration Experiments in 3D Video Coding" document.

2 Depth improvements

During the last meeting in Ghangzhou it was concluded that depth map for Poznan Carpark sequence should be furher improved, especially in extended frame range from 200 to 250 frames [1]. The considered range of depth frames matches frames 150..399 in video texture sequences. In order to achieve that, we have performed depth estimation with widened depth range, according to the table below:

	Current parameters
MinimumValueOfDisparitySearchRange	1
MaximumValueOfDisparitySearchRange	80
MinimumValueOfDisparityRange	1
MaximumValueOfDisparityRange	80
NearestDepthValue	-34.506386
FarthestDepthValue	-2760.510889

In particular:
- depth for the tree in upper-left corner has been re-estimated for frames 190...249,
- depth for moving objects in frames 190..249 has been improved (the edges),
- depth of the background in the all frames has been slightly improved.

See appendix for examples.

3 Sequence location

As usual, the depth maps have been uploaded on our FTP site:

ftp://multimedia.edu.pl/3DV/

in directory: 3-Depth\Poznan_CarPark_2011-01\

4 References

[1] "Description of Exploration Experiments in 3D Video Coding", MPEG 2010/N11630, Guangzhou, China, October 2010.

[2] "Report on Experimental Framework for 3D Video Coding", MPEG 2010/N11631, Guangzhou, China, October 2010.

5 Appendix

Frame	Poznan_Carpark - Depth #4	Poznan_Carpark - Synthesized View #4
0		
50		
100		
150		
200		
249