

Supplementary Materials: Laplacian Matrix Learning for Point Cloud Attribute Compression with Ternary Search-Based Adaptive Block Partition

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Table 1: The frame count of each point cloud sequence

Dataset	Point Cloud Sequence	Frame Count
MVUB	<i>Andrew</i>	318
	<i>David</i>	216
	<i>Phil</i>	245
	<i>Ricardo</i>	216
	<i>Sarah</i>	207
8iVFBv2	<i>Longdress</i>	300
	<i>Loot</i>	300
	<i>Redandblack</i>	300
	<i>Soldier</i>	300

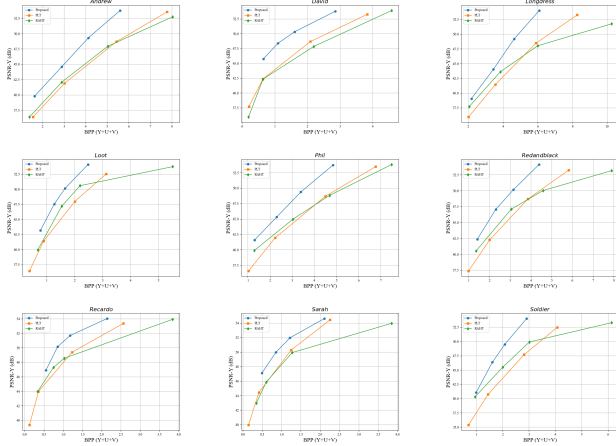


Figure 2: Demonstration of rate-distortion curves for the proposed method, PLT and RAHT on the 9 point cloud sequences.

1 DATASET

MVUB [2] and 8iVFBv2 [1] comprise 9 point cloud sequences. Table 1 presents the frame count of each point cloud sequence, while Figure 1 illustrates the visual results of the first frame of each point cloud sequence.

2 MORE RATE-DISTORTION CURVES

Due to space constraints, only partial rate-distortion curves of the point clouds are presented in the main text. Figure 2 illustrates the

rate-distortion curves of each point cloud sequence under different methods.



Figure 1: The first frame of 9 point cloud sequences.

REFERENCES

- [1] 8i Labs. 2017. 8i Voxelized Full Bodies version 2 – A Voxelized Point Cloud Dataset. ISO/IEC JTC1/SC29 Joint WG11/WG1 (MPEG/JPEG) input document.
- [2] Microsoft. 2016. Voxelized Upper Bodies – A Voxelized Point Cloud Dataset. ISO/IEC JTC1/SC29 Joint WG11/WG1 (MPEG/JPEG) input document.