



3 Related contributions

Intensity dependent quantization (1 proposal, 2 cross-checks)

- JCTVC-I0257 AHG16: On Intensity Dependent Quantization in the HEVC codec
M. Naccari, M. Mrak, D. Flynn, A. Gabriellini (BBC)
- JCTVC-I0482 Crosscheck of JCTVC_I0257 - On Intensity Dependent Quantization in the HEVC codec
Rik Allen, Vivek Gowri-Shankar (Altera)
- JCTVC-I0495 Cross-check of Intensity Dependent Quantization (JCTVC-I0257)
Glenn Van Wallendael, Sebastiaan Van Leuven, Jan De Cock, Rik Van de Walle (Ghent University)

Quantization matrices (3 proposals, 2 cross-checks)

- JCTVC-I0126 Newer Quantization Matrices for HEVC
S. Jeong, B. Jeon (LG Electronics)
- JCTVC-I0451 Cross-check on newer quantization matrices for HEVC (JCTVC-I0126)
I.-K Kim (Samsung)
- JCTVC-I0268 Quantization matrices for 4x4 DSTs in HEVC
J. Lou, L. Wang (Motorola Mobility)
- JCTVC-I0429 Cross-check of JCTVC-I0268: Quantization matrices for 4x4 DSTs in HEVC
X. Zhang, S. Liu (MediaTek)
- JCTVC-I0518 HVS-based Generalized Quantization Matrices
S. Jeong, Hendry, B. Jeon, J. Kim

Coding and signalling of quantization matrices (8 proposals, 2 cross-checks)

- JCTVC-I0101 Simplification on default quantization matrix signalling
S.-C. Lim, H. Y. Kim, J. Lee, J. S. Choi (ETRI)
- JCTVC-I0102 Diagonal scan for quantization matrix coefficients
S.-C. Lim, H. Y. Kim, J. Lee, J. S. Choi (ETRI)
- JCTVC-I0505 Cross-check of JCTVC-I0102 on diagonal scan for quantization matrix coefficients
V. Sze (TI)
- JCTVC-I0284 Quantization matrix entries as QP offsets
R. Joshi, J. Sole, M. Karczewicz (Qualcomm)
- JCTVC-I0364 Investigate of sub-sampling representation methods for quantization matrices
J. Zheng (HiSilicon), J. Chen (UCLA)

- JCTVC-I0369 Compact representation method for quantization matrices
J. Zheng (HiSilicon), J. Chen (UCLA)
- JCTVC-I0370 Removal of zigzag scan from quantization matrices coding
M. Shima (Canon)
- JCTVC-I0435 Cross-verification report on removal of zigzag scan from quantization matrices coding (JCTVC-I0370)
S.-C. Lim, H. Y. Kim, J. Lee (ETRI)
- JCTVC-I0419 Syntax for supporting 4x4 DST quantization matrices
R. Cohen, A. Vetro (MERL)
- JCTVC-I0465 Signaling of quantization matrices in SPS and PPS
M. Zhou (TI)

Other quantization-related contribution (2 contributions, 1 cross-check)

- JCTVC-I0285 Elimination of clipping before dequantization
R. Joshi, J. Sole, X. Li, M. Karczewicz (Qualcomm)
- JCTVC-I0280 AHG6: Quantization Matrices and Deblocking Filtering
G. Van der Auwera, R. Joshi, M. Karczewicz (Qualcomm)
- JCTVC-I0470 AHG6: Crosscheck Report for Quantization Matrices and Deblocking Filtering in JCTVC-I0280
J. An, X. Guo (MediaTek)

4 Recommendations

The recommendations of the AHG are:

- Review tools for intensity dependent quantization.
- Review interaction of quantization matrices and deblocking filters.
- Review new quantization matrices proposed at this meeting, considering the subjective impact.
- Organize visual tests, if needed, after review of proposals.
- Then review other related proposals as an enhancement.