Thus, two kinds of intra prediction are available in the proposed LH scheme: one explores the spatial redundancy within a frame, while the other tries to remove the redundancy between different bit-depth layers.

Furthermore, to improve the coding efficiency of inter coding, the residual of the low bit-depth MB is inversely tone mapped and utilized to predict the residual of the high bit-depth MB. The process, called *Residual Prediction*, can be regarded as another kind of inter-layer prediction and can be realized in two ways. The high bit-depth MB can perform motion estimation and motion compensation before...