**Abstract**

Entropy coding is a lossless compression technique which is supported in H.264/AVC standard by different techniques. According to baseline and the extended profiles of H.264/AVC, two variable length techniques are for seen. The first one is context adaptive variable length coding (CAVLC) and the other is exponential Golomb (Exp-Golomb) one. The CAVLC is used to quantize transform residues after reordering them by ZigZag scanning while Exp-Golomb coding is used to quantize other syntax elements. Within the frame of realizing the whole H246 standards, this paper, introduces an implementation of these two codec techniques for baseline profile using Matlab and Simulink. The main concept is to implement CAVLC and Exp-Golomb decoder according to H.264/AVC standard and then device a technique to implement CAVLC & Exp-Golomb encoder. The different implementations are utilized to verify each other.

**References**

Implementing Entropy Codec for H.264 Video Compression Standard


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Index Terms

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Keywords

Context adaptive variable length coder (CAVLC), Entropy coding, Exp-Golomb, H.264/AVC.