Abstract

With the increased use of multimedia devices now a days, JPEG2000 play a critical role on affecting the circuit performance. This paper presents the design of a low power JPEG2000 encoder. The encoding side mainly performs preprocessing, wavelet transform, quantization and entropy coding which is two-tired. Here tier-1 coding is done with condensed Huffman table. Since we are using this table space requirement is reduced considerably because compression
ratio is directly related to the size of Huffman table. Memory efficiency is also achieved with two-tier coding. The proposed JPEG2000 encoder consumes less power improved compression ratio when compared to the conventional encoders.

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Index Terms

Computer Science Wireless
Key words

JPEG2000

Condensed Huffman Table

Wavelet transform