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A three component hybrid image compression method

A. Stapleton

Abstract - In this paper we present a case study of a three- component hybrid image compression algorithm combining the familiar, DCT -based JPEG algorithm with the wavelet based JPEG 2000 algorithm and a searchless fractal image compression algorithm capable of unusually deep quadree spanning. Comparison of relationship between compression rate and peak signal to noise ratio for each component algorithm and the same relationship for the hybrid algorithm is presented. The hybrid algorithm is capable of providing superior performance in terms of compression rate and reconstructed image quality compared to any of the component methods alone .