

MULTIWAVELET EVALUATION IN IMAGE COMPRESSION

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Abstract

Multiwavelets and their applications have attracted many researchers because it is possible to construct multiwavelets that simultaneously possess desirable properties such as orthogonality, compact support and symmetry. Unlike scalar wavelet, multiwavelets are generated by vector scaling function with matrix refinement mask that lead to multifiler bank.

This paper gives a brief overview of the multiwavelet transform. Different multiwavelets with prefiltering method are then applied to multiwavelet filter bank and their results in image compression algorithm are discussed. Additionally, the comparisons are made with the results using the Daubechies-4 scalar wavelet which has the same approximation order.

Published in the 24th Electrical Engineering Conference (EECON24), Bangkok, November 22-23, 2001.