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The efficiency of the image subband coding algorithms based on zerotrees

OVIDIU COSMA

ABSTRACT.

EZW (*Embedded image coding using Zerotrees of Wavelet coefficients*) and SPIHT (*Set Partitioning in Hierarchical Trees*) are two of the best known progressive coding algorithms for the subbands of images. A progressive image-coding algorithm has to include at each pass, information about the magnitude of the significant coefficients, and their position in the two-dimensional array of the transform. This article evaluates the efficiency of those algorithms, expressed through the compactness of the position information.

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NOTH UNIVERSITY OF BAIA MARE
DEPARTMENT OF MATHEMATICS AND
COMPUTER SCIENCE
VICTORIEI 76
430120 BAIA MARE, ROMANIA
E-mail address: cosma@mail.alphanet.ro

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