

## THE IMPLEMENTATION OF A SPIHT WAVELET CODEC

Ovidiu COSMA

**Abstract.** Finding an efficient way to encode the subband coefficients is essential for revealing the potential of the wavelet transform. Shapiro's paper [1] introduces the zerotrees, as an instrument for taking advantage of the correlation between the coefficients in several subbands. The SPIHT codec presented in [2] is also based on zerotrees, but achieves better compression. In this paper are presented the results of implementing a Java codec based on the SPIHT algorithm, with little optimisations.

MSC: 68P30

Keywords: image compression