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The Overlapping Based Directional Hartley Transform

Dr. P. Rajavel

Abstract - Literature review revealed, overlapping based directional Hartley transform (ODirHT) in the Hartley domain has wide applications. The Fourier domain sub band partition principle of the curvelet transform is used to construct the ODirHT in the Harley domain. The ODirHT is a sparse representation and redundancy factor is 2.72 with computational complexity of $o(N^2 \log^2 N)$ for $N \times N$ image. The paper aims at focuses above issues.