

A Novel Linear Array for Discrete Cosine Transform

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Abstract

Discrete cosine transform (DCT) have been widely used in many image processing systems. In this paper, a novel linear-array of DCT and IDCT is derived from the data flow of subband decomposition representing the factorized coefficients matrices in the matrix formulation of the recursive algorithm.

Keyword : DCT/IDCT, subband decomposition, linear array, pipeline, scalabe