

OVERSAMPLED FIR FILTER BANKS DESIGN WITHOUT ALIASING FOR 2-D IMAGE

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Abstract

This paper presents the design and efficient implementation of proposed ten channels over sampled filter bank (FB), which gives output near input 2D image. This new proposed filter bank designed for real valued, even order FIR filters with proper frequency bands which are transformed into two dimensional (2D) form. Analysis and synthesis filters of filter bank are designed with same specifications. This proposed FB applied for different type images. To confirm the output image near input image peak signal to noise ratio of compressed images are estimated.

Keywords: FB, Over sampled FB, Compressed image.