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A Class of Bidimensional FMRA Wavelet Frames

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摘要   This paper addresses the construction of wavelet frame from a {\it frame multiresolution analysis} ({\bf FMRA}) associated with a dilation matrix of determinant ± 2. The dilation matrices of determinant ± 2 can be classified as six classes according to integral similarity. In this paper, for four classes of them, the construction of wavelet frame from an {\bf FMRA} is obtained, and, as examples, Shannon type wavelet frames are constructed, which have an independent value for their optimality in some sense.

关键词   FMRA   FMRA wavelet frame   integral similarity

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Key words   FMRA   FMRA wavelet frame   integral similarity

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