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Jianzhong Wang* (mth_jxw@shsu.edu), Sam Houston State University, Department of Mathematics and Statistics, Hunstville, TX 77341-2206. Multi-layer Spline-Wavelet Transforms and it Application in Image Processing.

Spline-wavelets are constructed by certain direvatives of spline functions, which have simple structure. The soothness of a spline is dependent on its order. In this paper, we discuss how to use the diffrent layers of spline-wavelet transforms of a function to represent a function and how to apply the representations in image processing. (Received February 27, 2004)