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Image Compression By Wavelet Transform by Panrong Xiao Digital images are widely used in computer applications. Uncompressed digital images require considerable storage capacity and transmission bandwidth. Efficient image compression solutions are becoming more critical with the recent growth of data intensive, multimedia-based web applications.

**Image Compression by Wavelet Transform.**

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reconstructed image quality decreases. 6. Video Compression Results 6.1 Level - one Video Compression Results Although it looks like video is continuous motion, it is actually a series of still images, and changing fast enough that it looks like continuous motion, so video compression is similar to image compression.

**Image and Video Compression using Discrete Wavelet**

Wavelet-based Image and Video Processing by Fu Jin A thesis presented to the University of Waterloo in fulfillment of the thesis requirement for the degree of Doctor of Philosophy in Systems Design Engineering Waterloo, Ontario, Canada, 2004 © Fu Jin 2004. I hereby declare that I am the sole author of this thesis.

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**Wavelet Video Coding**

In this paper a novel approach to the compression of sparse histogram images is proposed. First, we define a sparsity index which gives hints on the relationship between the mathematical concept ...

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wavelet transform to the rows of the image. The corresponding result is interpreted as image again (Figure 2.4(b)) and is composed of a coarse and scaled version of the original and the details, which are nec-

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• The wavelet coefficients measure how closely correlated the wavelet is with each section of the signal

• For compact representation, choose a wavelet that matches the shape of the image components

• Example: Haar wavelet for black and white drawings  $\hat{A}^3 f W M ( s, W) f ( x ) s , W ( x ) dx$

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