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Lecture - 19 Fractal Image Compression

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4.3 The Wavelet Transform | Image Analysis Class 2013 [Wavelet Transform Analysis of Images using MATLAB and SIMULINK](#) Image Compression through Wavelet Transform (Matlab) [Fractal And Wavelet Image Compression](#)

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The IMG System compresses images using fractal techniques, displays the decoded images, and computes the error between the original and decoded images through image subtraction. The WAV System performs similar functions on images using wavelet techniques, and, in addition, displays the wavelet transform of an image.

### [Fractal and Wavelet Image Compression Techniques I \(1999\) ...](#)

DESCRIPTION Interest in image compression for internet and other multimedia applications has spurred research into compression techniques that will increase storage capabilities and transmission speed. This tutorial provides a practical guide to fractal and wavelet approaches--two techniques with exciting potential.

### [Fractal and Wavelet Image Compression Techniques](#)

Image Compression Haar Wavelet ... a Wavelet-Based Theory for Fractal Image Compression. In Data Compression Conference, DCC'95. Google Scholar. 6. Shapiro, J. (1996): Techniques for Fast Implementation of the Embedded Zerotree Wavelet Algorithm.

### [Wavelet and Fractal Transforms for Image Compression ...](#)

The proposed multiresolution fractal coders are image compression schemes that combine wavelet and fractal transforms. They improve the performance of conventional fractal compression algorithms. They reduce the characteristic distortions of fractal algorithms: blocking artifacts and image blurring, by a better coding of high frequencies. 1 Introduction

### [Wavelet and fractal transforms for image compression](#)

Interest in image compression for internet and other multimedia applications has spurred research into compression techniques that will increase storage capabilities and transmission speed. This tutorial provides a practical guide to fractal and wavelet approaches--two techniques with exciting potential. It is intended for scientists, engineers, researchers, and students.

### [Fractal and Wavelet Image Compression Techniques - Stephen ...](#)

Now, using novel fractal- and wavelet-based methods, developers are abandoning the JPEG standard for higher 20:1 to 50:1 compression ratios. Fractal and wavelet algorithms offer significant side benefits beyond high compression ratios. One feature, progressive image transformation, cuts decompression times for lower-resolution image rendering.

### [Fractals and wavelets offer new ways to compress images ...](#)

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### [Fractal And Wavelet Image Compression Techniques: Amazon ...](#)

Image Compression with a Hybrid Wavelet-Fractal Coder Jin Li and C.-C. Jay Kuo Abstract A hybrid wavelet-fractal coder (WFC) for image compression is proposed in this research. The WFC uses the fractal contractive mapping to predict the wavelet coefficients of the higher resolution from

### [Image Compression with a Hybrid Wavelet-Fractal Coder](#)

At common compression ratios, up to about 50:1, Fractal compression provides similar results to DCT-based algorithms such as JPEG. At high compression ratios fractal compression may offer superior quality. For satellite imagery, ratios of over 170:1 have been achieved with acceptable results. Fractal video compression ratios of 25:1!244:1 have been achieved in reasonable compression times (2.4 to 66 sec/frame).

### [Fractal compression - Wikipedia](#)

Given these limitations of wavelet-based fractal coding algorithms, we propose a new algorithm of wavelet fractal image compression to take effective advantage of the fine properties of wavelet coefficients corresponding to wavelet transform. 4 Adaptive Wavelet Fractal Coding with Four-Fork Tree The algorithm we propose is based on the proposition that, when wavelet transform is applied to images, there will be a number of zero coefficients and small coefficients.

### [A Novel Fractal-Wavelet Image Compression Approach ...](#)

Fractal image compression and wavelet transform methods can be combined into a single compression scheme by using an iterated function system to generate the wavelet coefficients.

### [Merging Fractal Image Compression and Wavelet Transform ...](#)

By investigating the limitation of existing wavelet tree based image compression methods, we propose a novel wavelet fractal image compression method in this paper. Briefly, the initial errors are ...

### [A Novel Fractal-Wavelet Image Compression Approach ...](#)

Interest in image compression for Internet and other multimedia applications has spurred research into compression techniques that will increase storage capabilities and transmission speed. This tutorial provides a practical guide to fractal and wavelet approaches--two techniques with exciting potential.

### [Fractal and Wavelet Image Compression Techniques \(SPIE ...](#)

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### [Fractal and Wavelet Image Compression Techniques: Welstead ...](#)

Abstract Generally the fractal image compression is a technique based on the presentation of an image by a contractive transform, on the space of image, for which the fixed point is close to the original image. The fractal image compression is rapidly growing principle covers a wide variety of coding scheme in various domains.

### [Performance of Fractal Image Compression for Medical ...](#)

Fractal encoding and wavelet transform methods take two different approaches to discovering structure in image data. Barnsley and Sloan (1988,1990) first recognized the potential of applying the theory of iterated function systems to the problem of image compression. They patented their idea in 1990 and 1991.

### [Introduction](#)

Fractal image compression and wavelet transform methods can be combined into a single compression scheme by using an iterated function system to generate the wavelet coefficients.

### [A hybrid image compression algorithm based on fractal ...](#)

Yi Zhang and Xingyuan Wang proposed a fractal image compression coding scheme based on wavelet transform with diamond search. Hui Liu and Siliang Ma proposed a new image coding method based on discrete directional wavelet transform (S-WT) and quad tree decomposition.