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Wavelet Compression Meets  
Fractals - Hanne Kekkonen

Image  
Compression and Wavelets  
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Image  
Compression with Wavelets  
(Examples in Python) 54. Digital  
Image Processing: Fractal Image

Compression Wavelets and  
Multiresolution Analysis Image

Compression using Fractal  
Transformation MATLAB code

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Lecture - 19 Fractal Image  
Compression

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SVD: Image Compression [Matlab]

The Theory of Wavelet Transform  
and its implementation using  
Matlab

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Introduction to Wavelet Theory  
and it's Applications Understanding

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~~Wavelets, Part 1: What Are  
Wavelets How Image Compression  
Works Deepest Mandelbrot Set  
Zoom Animation ever - a New  
Record!  $10^{275}$  ( $2.1E275$  or  
 $2^{915}$ ) Fourier Transform, Fourier  
Series, and frequency spectrum  
How To Master a World-Class  
Prog Album (Plini - Impulse  
Voices) What Is A Fractal (and  
what are they good for)?~~

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The Wavelet Transform for  
Beginners But what is the Fourier  
Transform? A visual introduction.  
Sequences 10: Fractals and Chaos  
Wavelet Transform Analysis of  
1-D signals using Python  
~~Understanding Wavelets, Part 2:  
Types of Wavelet Transforms  
Image File Formats - JPEG, GIF,  
PNG Image Compression using  
Wavelet Transform by King Kong~~

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Ingrid Daubechies: Wavelet bases: roots, surprises and applications  
Image Compression using Discrete Wavelet Transform (DWT) |

MATLAB code PhotoTechEDU  
Day 10: Image Compression Part 2  
Wavelet Transform Analysis of Images using Python

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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

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

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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 | (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~~

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## ~~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:

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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 ...~~



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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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Compression Techniques: Amazon

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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

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fractal contractive mapping to  
predict the wavelet coef fi cients 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-

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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

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generate the wavelet coefficients.

~~Spie Tutorial Texts In  
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

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approaches--two techniques with  
exciting potential.

~~Fractal and Wavelet Image~~

~~Compression Techniques (SPIE ...~~

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~~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.

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~~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.

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~~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.

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