

(a)



(b)



(c)



(d)



(e)



(f)



(g)



(h)



(i)



(j)



(k)



(l)



# Fractal Image Compression

**Stephen T. Welstead**



## **Fractal Image Compression:**

*Fractal Image Compression* Yuval Fisher, 2012-12-06 What is Fractal Image Compression anyway You will have to read the book to find out everything about it and if you read the book you really will find out almost everything that is currently known about it In a sentence or two fractal image compression is a method or class of methods that allows images to be stored on computers in much less memory than standard ways of storing images The fractal part means that the methods have something to do with fractals complicated looking sets that arise out of simple algorithms This book contains a collection of articles on fractal image compression Beginners will find simple explanations working C code and exercises to check their progress Mathematicians will find a rigorous and detailed development of the subject Non mathematicians will find a parallel intuitive discussion that explains what is behind all the theorem proofs Finally researchers even researchers in fractal image compression will find new and exciting results both theoretical and applied Here is a brief synopsis of each chapter Chapter 1 contains a simple introduction aimed at the lay reader It uses almost no math but explains all the main concepts of a fractal encoding decoding scheme so that the interested reader can write his or her own code Chapter 2 has a rigorous mathematical description of iterated function systems and their generalizations for image encoding An informal presentation of the material is made in parallel in the chapter using sans serif font

**Fractal Image Compression** Kumar B P Santosh, 2015-07-24 Fractal image presents both the mathematical ideas and the practical techniques involved in compressing images by means of fractals With claims of compression ratios in excess of 10 000 to 1 fractal compression is certainly a promising new technology However the method is in fact quite controversial with some people claiming it doesn't work well while others claim it works wonderfully as the technology is fast developing but as yet unproven At the moment very little is known about fractal compression and what is known is difficult to ascertain This paper attempts to clarify the key ideas behind the methodology and includes an overview of the competition which includes the JPEG standard and vector quantization Fractal image compression relies on the fact that all real world images are rich in affine redundancy that is under suitable affine transformations large bits of real world images look like smaller bits of the same real world image The basic idea behind the method is to express the image as a set of local iterated function systems IFSs

**Fractal Image Compression Techniques** D. Shanmugapriya, E. Chandra, 2011-12 Fractal Image compression is one of the newer ways of squeezing an image file by systematically analyzing it and saving a smaller set of instruction instead of a description of every pixel that can be used to precisely reconstruct it The Technique used in this book utilizes the Genetic Algorithm which greatly decreases the search space for finding the self similarities in the given image The Domain pool design is one of the dominant issues which affect coding performance of fractal image compression In this book a block averaging method is used to design an efficient domain pool which produces high quality image after compression and decompression The Genetic Algorithm reduces the time complexity irrespective of image quality and Efficient Domain pool attains high quality image

Generally when image compression is carried out the factors such as size of image compression ratio quality and time are considered The work in this book concentrates on reducing time complexity involved during fractal image compression and also on obtaining high quality compressed images

**Fractal Image Compression** Michael Barnsley, Lyman Hurd, 1993-01-18

**Fractal and Wavelet Image Compression Techniques** Stephen T. Welstead, 1999 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 It provides both introductory information and implementation details Three Windows compatible software systems are included so that readers can explore the new technologies in depth Complete C C source code is provided enabling readers to go beyond the accompanying software The mathematical presentation is accessible to advanced undergraduate or beginning graduate students in technical fields

Fractal Image Compression Using Pyramids Huawu Lin, 1997 Fractal image compression is an attractive technique for image coding because of its distinct features and the low bit rate requirement In this research several techniques are introduced to improve the compression performance Fractal image compression is based on the self similarity search of the image The encoding process is computationally intensive In this thesis a pyramidal framework is proposed to reduce the encoding complexity The encoding complexity is reduced by as much as two orders of magnitude Because the domain range matching is independent parallel methods are proposed to further speed up the encoding process As with any lossy compression schemes one of the challenges is either to maximize the image quality at a fixed bit rate or to minimize the rate required for a given quality To fulfil this purpose the constant contractive factor in conventional fractal image compression is extended to the case of nonlinear contractive functions which lead to significantly better reconstructed images and faster decoding than the conventional fractal method Furthermore as digital images and video products are designed for human viewing human visual system HVS models are exploited to faithfully reproduce perceptually important information and eliminate the information that the visual system cannot perceive Based on the human visual system s nonlinear response to luminance and the visual masking effects a perceptually appropriate metric is defined The psychophysical raw data on the visual contrast threshold is first interpolated as a function of background luminance and visual angle and is then used as an error upper bound for perceptually based fractal image compression The perceptually based method produces visually better reconstructed images than the conventional method and the JPEG standard To reduce the domain search complexity the pyramidal search method is also extended for perceptually based fractal image compression Practical fractal image compression is a block coding At very low bit rates fractal method encoded images may exhibit blocking artifacts Based on the Laplacian pyramidal representation of the image the thesis presents a general post processing method to remove the blocking effects

An In-depth Look at Fractal Image Compression ,2009 **Fractal**

**Image Compression** ,1999

**Image Compression Using Fractal** Tejas Gandhi,Hetal Patel,Darshana

Prajapati,2015-09-24 This book presents the concept of fractal and its geometry with the explanation of how natural objects require different geometry rather than traditional Euclidean geometry and also discusses mathematics of fractals with the simulation results of generated fractal and applications of the fractal geometry in image compression Image compression is minimizing the size in bytes of a graphics file without degrading the quality of the image to an unacceptable level The objective of image compression is to reduce irrelevance and redundancy of the image data in order to be able to store or transmit data in an efficient form Image compression using fractal has a major drawback of large encoding time and several algorithm have been developed to reduce the encoding time for compression In this thesis various algorithms of Image compression using fractal are presented Speeding Up Fractal Image Compression Nevert A. Yousif,Loay E. George,2012

Fractal image compression FIC is one of the most recent image compression techniques It offers a high compression ratio with extremely short decompression time However it suffered from long compression time In this book an improved PIFS scheme is introduced which uses two discrete cosine transform DCT descriptors to classify the zero mean range domain blocks and to address the isometric state of each block to reduce encoding time while while maintaining reasonable image quality This book therefore provides a great success in fractal compression field of the colored images and should be useful to professionals in image processing field and data communication *Document and Image Compression* Mauro

Barni,2018-10-08 Although it s true that image compression research is a mature field continued improvements in computing power and image representation tools keep the field spry Faster processors enable previously intractable compression algorithms and schemes and certainly the demand for highly portable high quality images will not abate *Document and Image Compression* highlights the current state of the field along with the most probable and promising future research directions for image coding Organized into three broad sections the book examines the currently available techniques future directions and techniques for specific classes of images It begins with an introduction to multiresolution image representation advanced coding and modeling techniques and the basics of perceptual image coding This leads to discussions of the JPEG 2000 and JPEG LS standards lossless coding and fractal image compression New directions are highlighted that involve image coding and representation paradigms beyond the wavelet based framework the use of redundant dictionaries the distributed source coding paradigm and novel data hiding techniques The book concludes with techniques developed for classes of images where the general purpose algorithms fail such as for binary images and shapes compound documents remote sensing images medical images and VLSI layout image data Contributed by international experts *Document and Image Compression* gathers the latest and most important developments in image coding into a single convenient and authoritative source Kurzgefasste Indianer-Geschichte von Nord-Amerika. Oder: authentische Nachricht sowohl von der

Verfassung der daselbst wohnenden Braunen-Nation überhaupt ,1805

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E. W. Jacobs,R. D. Boss,Yuval Fisher,1990     **Advances in Smart Grid and Renewable Energy** Karma Sonam Sherpa,Akash Kumar Bhoi,Akhtar Kalam,Manoj Kumar Mishra,2021-01-04 This book comprises select proceedings of the international conference ETAEERE 2020 and primarily focuses on renewable energy resources and smart grid technologies The book provides valuable information on the technology and design of power grid integration on microgrids of green energy sources Some of the topics covered include solar PV array hybrid microgrid daylight harvesting green computing photovoltaic applications nanogrid applications AC DC AC converter for wind energy systems solar photovoltaic panels PEM fuel cell system and biogas run dual fueled diesel engine The contents of this book will be useful for researchers and practitioners working in the areas of smart grids and renewable energy generation distribution and management

## The Enigmatic Realm of **Fractal Image Compression**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Fractal Image Compression** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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