

Discrete Iterated Function Systems

Number Systems, Iterated Function Systems and Fractals Iterated Function Systems on Compact Hausdorff Spaces Iterated Function Systems and Permutation Representations of the Cuntz Algebra Iterated Function Systems, the Deterministic Algorithm, Fractals, Dimensions and Modeling Real Trees Fractals and Iterated Function Systems Step-wise Adjustable Iterated Function Systems Iterated Function Systems Linear and Markov Iterated Function Systems in Fractal Geometry Iterated Function Systems, Moments, and Transformations of Infinite Matrices Iterated Function Systems Hyperbolic Iterated Function Systems, Fractals, and Fractal Dimension The Global Structure of Iterated Function Systems Fractals Via Iterated Function Systems Rendering and Magnification of Fractals Using Iterated Function Systems Fractals in Multimedia Fractal Shapes Generated by Iterated Function Systems Countable Iterated Function Systems Fractals, Dimension, and Iterated Function Systems Discrete Iterated Function Systems Rendering and Magnification of Fractals Using Iterated Function Systems Fei-Ye Yew Bernd Kieninger Ola Bratteli David Wayne Joyce Joseph William Simons Tynan Cody Lazarus Kimberly Ann Yeaton Tad E. Womackalle E. T. Jørgensen Amy Keistler Julian Allen Brooks Jun Wu Laurie Hodges Reuter Michael F. Barnsley Mary Catherine McKinley Nicolae Adrian Seccean Scott M. Davidson Mario Peruggia Laurie Beth Hodges Reuter

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this book is intended for graduate students and research mathematicians working in functional analysis

fractals have caught the attention of the public over the last few decades with their often beautiful colors or naturalistic look

however the math underlying the beautiful images has not become as mainstream even though the classical ways to generate fractals using moran sets or iterated function systems ifs is relatively straightforward in this thesis we start with some common examples and ways to generate fractals as well as the common measures and dimensions used to analyze fractals we then present a new process that mixes the moran set and ifs generating techniques by allowing the generating process to be updated at each iteration which produces non self similar fractals with more variation but does not change the computational complexity when compared to a standard ifs construction we then provide estimates and calculations for the hausdorff dimension of the new fractals generated from this process

this ima volume in mathematics and its applications fractals in multimedia is a result of a very successful three day minisymposium on the same title the event was an integral part of the ima annual program on mathematics in multimedia 2000 2001 we would like to thank michael f barnsley department of mathematics and statistics university of melbourne di etmar saupe institut fur informatik universiuit leipzig and edward r vrscaj department of applied mathematics university of waterloo for their excellent work as organizers of the meeting and for editing the proceedings we take this opportunity to thank the national science foundation for their support of the ima series editors douglas n arnold director of the ima fadil santosa deputy director of the ima v preface this volume grew out of a meeting on fractals in multimedia held at the ima in january 2001 the meeting was an exciting and intense one focused on fractal image compression analysis and synthesis iterated function systems and fractals in education the central concerns of the meeting were to establish within these areas where we are now and to develop a vision for the future

fractal theory is certainly one of the most dynamical fields in mathematics the most amazing thing about fractals is the variety of their applications in dynamical systems physics quantum mechanics computer graphics astronomy biology chemistry medicine telecommunications arts and others iterated function systems ifss are the main generators of fractals in this book we provide an extension of the well known hutchinson barnsley theory of finite ifs to countable ifs cifs after a review of the basic properties of ifss we described the features of cifss related to the attractor hausdorff dimension self similarity hutchinson measure fractal interpolation continuous dependence on parameter some generalizations and a modern approach of ifss and cifss are also investigated this book is written in a rigorous but accessible self contained manner several examples are given with the aim to offer a better understanding of the theory the book is useful for mathematicians students researchers postgraduates physicians and other specialists which are interested in studying the fractals produced by an iterative process

written for researchers and developers applying integrated function systems in the creation of fractal images this book presents a modification of a widely used probabilistic algorithm for generating ifs encoded images the book also includes a discussion of how ifs techniques can be applied to produce animated motion pictures

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