FRACTAL ANALYSIS

Clifford Brown
Larry Liebovitch

SAGE

Fractal Analysis Quantitative Applications In The Social Sciences

Fernando Brambila

Fractal Analysis Quantitative Applications In The Social Sciences:

   Fractal Analysis Clifford Brown,Larry Liebovitch,2010-04-14 A specialized presentation of fractal analysis oriented to the social sciences This primer uses straightforward language to give the reader step by step instructions for identifying and analyzing fractal patterns and the social process that create them By making fractals accessible to the social science students this book has a significant impact on the understanding of human behavior Key Features Detailed examples help readers learn and understand the analytical methods presented Matlab codes for programs allow users to implement on their own some of the techniques described in the text Visit http www ccs fau edu liebovitch larry html for more details Clear and logical explanations of fractals and their analysis enable the instructor to easily teach and the student to easily learn the material This is the only book designed to introduce fractal analysis to a general social science audience Learn more about The Little Green Book QASS Series Click Here   **Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics II** David Carfi,Michel L. Lapidus,Erin P. J. Pearse,Machiel van Frankenhuijsen,2013-10-24 This volume contains the proceedings from three conferences the PISRS 2011 International Conference on Analysis Fractal Geometry Dynamical Systems and Economics held November 8 12 2011 in Messina Italy the AMS Special Session on Fractal Geometry in Pure and Applied Mathematics in memory of Beno t Mandelbrot held January 4 7 2012 in Boston MA and the AMS Special Session on Geometry and Analysis on Fractal Spaces held March 3 4 2012 in Honolulu HI Articles in this volume cover fractal geometry and various aspects of dynamical systems in applied mathematics and the applications to other sciences Also included are articles discussing a variety of connections between these subjects and various areas of physics engineering computer science technology economics and finance as well as of mathematics including probability theory in relation with statistical physics and heat kernel estimates geometric measure theory partial differential equations in relation with condensed matter physics global analysis on non smooth spaces the theory of billiards harmonic analysis and spectral geometry The companion volume Contemporary Mathematics Volume 600 focuses on the more mathematical aspects of fractal geometry and dynamical systems   Using Time Series to Analyze Long-Range Fractal Patterns Matthijs Koopmans,2020-09-23 This book presents methods for describing and analyzing dependency and irregularity in long time series Irregularity refers to cycles that are similar in appearance but unlike seasonal patterns more familiar to social scientists repeated over a time scale that is not fixed Until now the application of these methods has mainly involved analysis of dynamical systems outside of the social sciences but this volume makes it possible for social scientists to explore and document fractal patterns in dynamical social systems   Fractal Analysis Fernando Brambila,2017-06-14 Fractal analysis has entered a new era The applications to different areas of knowledge have been surprising Let us begin with the fractional calculus fractal geometry relationship which allows for modeling with extreme precision of phenomena such as diffusion in porous media with fractional partial differential equations in fractal objects Where the order of the equation is the same as

the fractal dimension this allows us to make calculations with enormous precision in diffusion phenomena particularly in the oil industry for new spillage prevention Main applications to industry design of fractal antennas to receive all frequencies and that is used in all cell phones spacecraft radars image processing measure porosity turbulence scattering theory Benoit Mandelbrot creator of fractal geometry would have been surprised by the use of fractal analysis presented in this book Part I Petroleum Industry and Numerical Analysis Part II Fractal Antennas Spacecraft Radars Image Processing and Measure and Part III Scattering Theory Porosity and Turbulence It s impossible to picture today s research without fractal analysis

Mathematical Modeling of Social Relationships Urszula Strawinska-Zanko,Larry S. Liebovitch,2018-06-07 This edited volume presents examples of social science research projects that employ new methods of quantitative analysis and mathematical modeling of social processes This book presents the fascinating areas of empirical and theoretical investigations that use formal mathematics in a way that is accessible for individuals lacking extensive expertise but still desiring to expand their scope of research methodology and add to their data analysis toolbox Mathematical Modeling of Social Relationships professes how mathematical modeling can help us understand the fundamental compelling and yet sometimes complicated concepts that arise in the social sciences This volume will appeal to upper level students and researchers in a broad area of fields within the social sciences as well as the disciplines of social psychology complex systems and applied mathematics **Fractal Dimension for Fractal Structures** Manuel Fernández-Martínez,Juan Luis García Guirao,Miguel Ángel Sánchez-Granero,Juan Evangelista Trinidad Segovia,2019-04-23 This book provides a generalised approach to fractal dimension theory from the standpoint of asymmetric topology by employing the concept of a fractal structure The fractal dimension is the main invariant of a fractal set and provides useful information regarding the irregularities it presents when examined at a suitable level of detail New theoretical models for calculating the fractal dimension of any subset with respect to a fractal structure are posed to generalise both the Hausdorff and box counting dimensions Some specific results for self similar sets are also proved Unlike classical fractal dimensions these new models can be used with empirical applications of fractal dimension including non Euclidean contexts In addition the book applies these fractal dimensions to explore long memory in financial markets In particular novel results linking both fractal dimension and the Hurst exponent are provided As such the book provides a number of algorithms for properly calculating the self similarity exponent of a wide range of processes including fractional Brownian motion and L vy stable processes The algorithms also make it possible to analyse long memory in real stocks and international indexes This book is addressed to those researchers interested in fractal geometry self similarity patterns and computational applications involving fractal dimension and Hurst exponent **A Fractal Epistemology for a Scientific Psychology** Terry Marks-Tarlow,Yakov Shapiro,Katthe P. Wolf,Harris L. Friedman,2020-01-06 Fractal dynamics provide an unparalleled tool for understanding the evolution of natural complexity throughout physical biological and psychological realms This book s conceptual framework

helps to reconcile several persistent dichotomies in the natural sciences including mind brain linear nonlinear subjective objective and even personal transpersonal processes A fractal approach is especially useful when applied to recursive processes of consciousness both within their ordinary and anomalous manifestations This novel way to study the interconnection of seemingly divided wholes encompasses multiple dimensions of experience and being It brings together experts in diverse fields neuropsychologists psychiatrists physicists physiologists psychoanalysts mathematicians and professors of religion and music composition to demonstrate the value of fractals as model method and metaphor within psychology and related social and physical sciences The result is a new perspective for understanding what has often been dismissed as too subjective idiosyncratic and ineffably beyond the scope of science bringing these areas back into a natural scientific framework **Ethnomathematics of Negev Bedouins' Existence in Forms, Symbols and Geometric Patterns** Ada Katsap,Fredrick L. Silverman,2015-12-17 Ethnomathematics of Negev Bedouins Existence in Forms Symbols and Geometric Patterns provokes a journey into the world of Negev Bedouins and attests to the beauty and sophistication of mathematics that occurs naturally in their craftwork structures games and throughout Bedouin life The major focus is Bedouin women s traditional craftwork by which they reflect social and cultural activities in their weaving embroidery and similar pursuits Their creations reveal mathematical ideas incorporated in embroidery compositions in repeated patterns of flowers and geometric figures in varying scales The women use ground staked looms stabilized by block stones to make multi color repeating pattern strip rugs in a process practiced for generations An image of this appears in the book s cover photo collage Bedouin men construct dwellings tents desert wells and such They and their children play games attuned to sand and other specific desert conditions These activities of Bedouin women men and children require mathematical thinking and strategic reasoning to achieve desired outcomes The book opens with a narrative of Bedouin history followed by a brief overview of ethnomathematics and concludes with discussion about bridging the gap between school mathematics experiences and those outside school It considers mathematically problematic situations embedded in Bedouin sociocultural heritage likely to appeal to teachers for use with school students The book is intended for a diverse audience from Bedouin communities in different countries to the general public and professionals including ethnomathematicians and mathematics educators Numerous photographs document the examples of Bedouin ethnomathematics They are the subject of considerable analysis and appear throughout the book **Toyin Falola and African Epistemologies** A. Bangura,2015-02-11 While there are five important festschriften on Toyin Falola and his work this book fulfills the need for a single authored volume that can be useful as a textbook I develop clearly articulated rubrics and overarching concepts as the foundational basis for analyzing Falola s work **Exploring Spatial Scale in Geography** Christopher D. Lloyd,2014-03-04 Exploring Spatial Scale in Geography provides a conceptual and practical guide to issues of spatial scale in all areas of the physical and social sciences Scale is at the heart of geography and other spatial sciences Whether dealing with geomorphological processes

population movements or meteorology a consideration of spatial scale is vital Exploring Spatial Scale in Geography takes a practical approach with a core focus on real world problems and potential solutions Links are made to appropriate software environments with an associated website providing access to guidance material which outlines how particular problems can be approached using popular GIS and spatial data analysis software This book offers alternative definitions of spatial scale presents approaches for exploring spatial scale and makes use of a wide variety of case studies in the physical and social sciences to demonstrate key concepts making it a key resource for anyone who makes use of geographical information

Attracted to Conflict: Dynamic Foundations of Destructive Social Relations Robin R. Vallacher,Peter T. Coleman,Andrzej Nowak,Lan Bui-Wrzosinska,Larry Liebovitch,Katharina Kugler,Andrea Bartoli,2014-07-08 Conflict is inherent in virtually every aspect of human relations from sport to parliamentary democracy from fashion in the arts to paradigmatic challenges in the sciences and from economic activity to intimate relationships Yet it can become among the most serious social problems humans face when it loses its constructive features and becomes protracted over time with no obvious means of resolution This book addresses the subject of intractable social conflict from a new vantage point Here these types of conflict represent self organizing phenomena emerging quite naturally from the ongoing dynamics in human interaction at any scale from the interpersonal to the international Using the universal language and computational framework of nonlinear dynamical systems theory in combination with recent insights from social psychology intractable conflict is understood as a system locked in special attractor states that constrain the thoughts and actions of the parties to the conflict The emergence and maintenance of attractors for conflict can be described by means of formal models that incorporate the results of computer simulations experiments field research and archival analyses Multi disciplinary research reflecting these approaches provides encouraging support for the dynamical systems perspective Importantly this text presents new views on conflict resolution In contrast to traditional approaches that tend to focus on basic short lived cause effect relations the dynamical perspective emphasizes the temporal patterns and potential for emergence in destructive relations Attractor deconstruction entails restoring complexity to a conflict scenario by isolating elements or changing the feedback loops among them The creation of a latent attractor trades on the tendency toward multi stability in dynamical systems and entails the consolidation of incongruent positive elements into a coherent structure In the bifurcation scenario factors are identified that can change the number and types of attractors in a conflict scenario The implementation of these strategies may hold the key to unlocking intractable conflict creating the potential for constructive social relations **Using Time Series to Analyze Long Range Fractal Patterns** Matthijs Koopmans,2020-12 Using Time Series to Analyze Long Range Fractal Patterns presents methods for describing and analyzing dependency and irregularity in long time series Irregularity refers to cycles that are similar in appearance but unlike seasonal patterns more familiar to social scientists repeated over a time scale that is not fixed Until now the application of these methods has mainly involved analysis of

dynamical systems outside of the social sciences but this volume makes it possible for social scientists to explore and document fractal patterns in dynamical social systems Author Matthijs Koopmans concentrates on two general approaches to irregularity in long time series autoregressive fractionally integrated moving average models and power spectral density analysis He demonstrates the methods through two kinds of examples simulations that illustrate the patterns that might be encountered and serve as a benchmark for interpreting patterns in real data and secondly social science examples such a long range data on monthly unemployment figures daily school attendance rates daily numbers of births to teens and weekly survey data on political orientation Data and R scripts to replicate the analyses are available in an accompanying website

The Association Graph and the Multigraph for Loglinear Models Harry J. Khamis,2011-01-12 This practical guide teaches nonstatisticians how to analyze and interpret loglinear models using the multigraph The Association Graph and the Multigraph for Loglinear Models will help students particularly those studying the analysis of categorical data to develop the ability to evaluate and unravel even the most complex loglinear models without heavy calculations or statistical software This supplemental text reviews loglinear models explains the association graph and introduces the multigraph to students who may have little prior experience of graphical techniques but have some familiarity with categorical variable modeling The author presents logical step by step techniques from the point of view of the practitioner focusing on how the technique is applied to contingency table data and how the results are interpreted **Regression Diagnostics** John Fox,2019-12-09 Regression diagnostics are methods for determining whether a regression model that has been fit to data adequately represents the structure of the data For example if the model assumes a linear straight line relationship between the response and an explanatory variable is the assumption of linearity warranted Regression diagnostics not only reveal deficiencies in a regression model that has been fit to data but in many instances may suggest how the model can be improved The Second Edition of this bestselling volume by John Fox considers two important classes of regression models the normal linear regression model LM in which the response variable is quantitative and assumed to have a normal distribution conditional on the values of the explanatory variables and generalized linear models GLMs in which the conditional distribution of the response variable is a member of an exponential family R code and data sets for examples within the text can be found on an accompanying website **Nonrecursive Models** Pamela Paxton,John R. Hipp,Sandra Marquart-Pyatt,2011-03-08 Nonrecursive Models is a clear and concise introduction to the estimation and assessment of nonrecursive simultaneous equation models This unique monograph gives practical advice on the specification and identification of simultaneous equation models how to assess the quality of the estimates and how to correctly interpret results **Multivariate General Linear Models** Richard F. Haase,2011-11-23 This book provides an integrated introduction to multivariate multiple regression analysis MMR and multivariate analysis of variance MANOVA Beginning with an overview of the univariate general linear model this volume defines the key steps in analyzing linear model data and

introduces multivariate linear model analysis as a generalization of the univariate model Richard F Haase focuses on multivariate measures of association for four common multivariate test statistics presents a flexible method for testing hypotheses on models and emphasizes the multivariate procedures attributable to Wilks Pillai Hotelling and Roy The volume concludes with a discussion of canonical correlation analysis that is shown to subsume all the multivariate procedures discussed in previous chapters The analyses are illustrated throughout the text with three running examples drawing from several disciples including personnel psychology anthropology environmental epidemiology and neuropsychology **Linear Regression** Damodar N. Gujarati,2018-06-14 Damodar N Gujarati s Linear Regression A Mathematical Introduction presents linear regression theory in a rigorous but approachable manner that is accessible to students in all social sciences This concise title goes step by step through the intricacies and theory and practice of regression analysis The technical discussion is provided in a clear style that doesn t overwhelm the reader with abstract mathematics End of chapter exercises test mastery of the content and advanced discussion of some of the topics is offered in the appendices *Generalized Linear Models for Bounded and Limited Quantitative Variables* Michael Smithson,Yiyun Shou,2019-09-09 This book introduces researchers and students to the concepts and generalized linear models for analyzing quantitative random variables that have one or more bounds Examples of bounded variables include the percentage of a population eligible to vote bounded from 0 to 100 or reaction time in milliseconds bounded below by 0 The human sciences deal in many variables that are bounded Ignoring bounds can result in misestimation and improper statistical inference Michael Smithson and Yiyun Shou s book brings together material on the analysis of limited and bounded variables that is scattered across the literature in several disciplines and presents it in a style that is both more accessible and up to date The authors provide worked examples in each chapter using real datasets from a variety of disciplines The software used for the examples include R SAS and Stata The data software code and detailed explanations of the example models are available on an accompanying website **Randomized Response and Related Methods** James Alan Fox,2015-07-29 Randomized response is a data collection strategy specifically designed for surveys of a sensitive nature By establishing a probabilistic connection between question and answer randomized response and related methods protect respondents who are asked to disclose personal information Covering a half century of theoretical and applied research the Second Edition of James Alan Fox s Randomized Response and Related Methods significantly updates and expands what was at the time the first comprehensive and practical guide to randomized response **Applied Regression** Colin Lewis-Beck,Michael Lewis-Beck,2015-06-18 Known for its readability and clarity this Second Edition of the best selling Applied Regression provides an accessible introduction to regression analysis for social scientists and other professionals who want to model quantitative data After covering the basic idea of fitting a straight line to a scatter of data points the text uses clear language to explain both the mathematics and assumptions behind the simple linear regression model Authors Colin Lewis Beck and Michael Lewis Beck then cover more specialized

subjects of regression analysis such as multiple regression measures of model fit analysis of residuals interaction effects multicollinearity and prediction Throughout the text graphical and applied examples help explain and demonstrate the power and broad applicability of regression analysis for answering scientific questions

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