

Nonlinear Psychophysical Dynamics

Robert A. M. Gregson

Nonlinear Psychophysical Dynamics

Barbara J. Crowe



Nonlinear Psychophysical Dynamics:

Nonlinear Psychophysical Dynamics Robert A.M. Gregson,2013-04-15 Nonlinear Psychophysical Dynamics utilizes new results in systems theory as a foundation for representing sensory channels as a form of recursive loop processes It demonstrates that a range of phenomena previously treated as diverse or anomalous are more readily seen as related and as the natural consequence of self regulation and nonlinearity Some cases with appropriate data analysis are reviewed

Nonlinear Psychophysical Dynamics Robert A.M. Gregson,2013-04-15 Nonlinear Psychophysical Dynamics utilizes new results in systems theory as a foundation for representing sensory channels as a form of recursive loop processes It demonstrates that a range of phenomena previously treated as diverse or anomalous are more readily seen as related and as the natural consequence of self regulation and nonlinearity Some cases with appropriate data analysis are reviewed

n-Dimensional Nonlinear Psychophysics Robert A. M. Gregson,2021-09-30 Originally published in 1992 this work compliments and extends the theory and results of nonlinear psychophysics an original approach created by the author It breaks with the traditional mathematics used in the experimental psychology of sensation and draws on what is popularly known as chaos theory and its extension into neural networks Topical and innovative in its approach it integrates a diversity of topics previously treated separately into one framework The properties of the mathematics used are illustrated in the context of substantive problems in psychophysics thus it builds strong new bridges between the dynamics of mass action in psychophysical processes and the broader phenomena of sensation No other treatments of the topic take quite this approach the use of systems theory rather than traditional equations of psychophysics dating from the mid nineteenth century offers a striking contrast in both theory construction and data analysis

Nonlinear Dynamical Systems Analysis for the Behavioral Sciences Using Real Data Stephen J. Guastello,Robert A.M. Gregson,2016-04-19 Although its roots can be traced to the 19th century progress in the study of nonlinear dynamical systems has taken off in the last 30 years While pertinent source material exists it is strewn about the literature in mathematics physics biology economics and psychology at varying levels of accessibility A compendium research methods reflect

Nonlinear Dynamics Richard A. Heath,2014-04-04 Additional Resource Materials Human behavior would not be interesting to us if it remained the same from one moment to the next Moreover we tend to be sensitive to changes in people s behavior especially when such change impacts on our own and other s behavior This book describes a variety of techniques for investigating change in behavior It employs conventional time series methods as well as recently developed methodology using nonlinear dynamics including chaos a term that is not easy to define nor to confirm Although nonlinear methods are being used more frequently in psychology a comprehensive coverage of methods theory and applications with a particular focus on human behavior is needed Between these covers the reader is led through various procedures for linear and nonlinear time series analysis including some novel procedures that allow subtle temporal aspects of human cognition to be detected Analyses of reaction

times heart rate psychomotor skill decision making and EEG are supplemented by a contemporary review of recent dynamical research in developmental psychology psychopathology and human cognitive processes A consideration of nonlinear dynamics assists our understanding of deep issues such as Why is our short term memory capacity limited Why do chronic disorders and also cognitive development progress through stage like transitions Why do people make irrational decisions This book will be of particular interest to researchers practitioners and advanced students in a variety of areas in psychology particularly in human experimental and physiological psychology Data analyses are performed using the latest nonlinear dynamics computer packages A comprehensive WWW resource of software and supplementary information is provided to assist the reader's understanding of the novel and potentially revolutionary procedures described in the book

Music and Soulmaking Barbara J. Crowe, 2004-12-08 Explores new avenues in music therapy The author discusses connections between music therapy and theorizes that every little nuance found in nature is part of a dynamic system in motion

Cascades and Fields in Perceptual Psychophysics Robert Anthony Mills Gregson, 1995 Psychophysics is by definition mappings between events in the environment and levels of human sensory responses In this text the methods of nonlinear dynamics employing trajectories developed for simpler sensory modelling are extended to classes of problems which lie at the interface between sensation and perception A diversity of topics for which extensive empirical evidence exists are reformulated by writing their dynamics in terms of complex trajectories put into coupled lattices and into cascades of such lattices Fundamental relationships between core processes of psychophysics in time and space and recurrent quantitative or topological distortions of the physical world which arise in perception are given a treatment which contrasts fundamentally with traditional linear equations in use since the 19th century

Psychophysical Approaches to Cognition D. Algom, 1992-08-20 Our lives are informed by perceptual and cognitive processes at all levels from instrumental learning to metaphorical discourse to memorial representation Yet historically these two branches of experimental psychology perception and cognition have developed separately using independent methods of experimentation and analysis This volume is motivated by the assumption that a fundamental integration of the two fields is fruitful methodologically and indispensable theoretically It explores how the notion of psychophysics aligned with cognitive processes shapes the study of perception and cognition and illuminates a variety of contemporary research issues from a novel theoretical perspective The papers raise conceptual and metatheoretical issues against the background of relevant empirical data The authors provide a virtually narrative account of the most recent developments in their respective fields of expertise in psychophysics and cognitive psychology Hence this volume gives the interested reader an opportunity to reflect critically upon some of the current issues defining the two domains and their conjunction Topics discussed include the psychology and psychophysics of similarity the psychophysics of visual memory and cognitive factors in judgment The emerging notion of cognitive psychophysics may well warrant the attention of experts in the field

Relational Psychophysics in Humans and Animals Viktor

Sarris,2007-09-12 Relational Psychophysics in Humans and Animals offers a comprehensive and integrated overview of the often fragmented field of psychophysics It introduces key concepts in psychophysics and clearly summarises and illustrates the central issues through telling examples It combines empirical research and theoretical approaches from general psychophysics animal psychophysics and human infant psychophysics to create a systematic comparison of these three key areas Through out Viktor Sarris makes a strong case for more comparative psychophysical research across different species and across different stages of development He presents original research and examines frame of reference models behavioural psychophysics developmental psychophysics perceptual cognitive psychophysics and evolutionary perspectives to create an integrated framework for the direction of new research The book will be an invaluable aid for researchers in the fields of perception and psychophysics

Informative Psychometric Filters Robert A. M. Gregson,2006-08-01 This book is a series of case studies with a common theme Some refer closely to previous work by the author but contrast with how they have been treated before and some are new Comparisons are drawn using various sorts of psychological and psychophysiological data that characteristically are particularly nonlinear non stationary far from equilibrium and even chaotic exhibiting abrupt transitions that are both reversible and irreversible and failing to meet metric properties A core idea is that both the human organism and the data analysis procedures used are filters that may variously preserve transform distort or even destroy information of significance

Current Catalog National Library of Medicine (U.S.),1992-10

From Learning Theory to Connectionist Theory Alice F. Healy,Stephen Michael Kosslyn,Richard M. Shiffrin,1992 First Published in 1992 Routledge is an imprint of Taylor Francis an informa company

Fractals of Brain, Fractals of Mind Earl Mac Cormac,Maxim I. Stamenov,1996-06-28 This collective volume is the first to discuss systematically what are the possibilities to model different aspects of brain and mind functioning with the formal means of fractal geometry and deterministic chaos At stake here is not an approximation to the way of actual performance but the possibility of brain and mind to implement nonlinear dynamic patterns in their functioning The contributions discuss the following topics among others the edge of chaos dynamics in recursively organized neural systems and in intersensory interaction the fractal timing of the neural functioning on different scales of brain networking aspects of fractal neurodynamics and quantum chaos in novel biophysics the fractal maximum power evolution of brain and mind the chaotic dynamics in the development of consciousness etc It is suggested that the margins of our capacity for phenomenal experience are fractal limit phenomena Here the possibilities to prove the plausibility of fractal modeling with appropriate experimentation and rational reconstruction are also discussed A conjecture is made that the brain vs mind differentiation becomes possible most probably only with the imposition of appropriate symmetry groups implementing a flowing interface of features of local vs global brain dynamics Series B

Models of Action Clive D.L. Wynne,John E.R. Staddon,2013-06-17 This volume presents an international group of researchers who model animal and human behavior both simple and complex The models presented

focus on such subjects as the pattern of eating in meals and bouts the energizing and shaping impact of reinforcers on behavior transitive inferential reasoning responding to a compound stimulus avoidance and escape learning recognition memory category formation generalization the timing of adaptive responses and chromosomes exchanging information The chapters are united by a common interest in adaptive behavior whether of human animal or artificial system and clearly demonstrate the rich variety of ways in which this fascinating area of research can be approached In so doing the book demonstrates the range of thought that qualifies as theorizing in the contemporary study of the mechanisms of adaptive behavior It has two purposes to bring together a very wide range of approaches in one place and to give authors space to explain how their ideas developed Journal literature often presents fully formed theories with no explanation of how an idea came to have the shape in which it is presented In this volume however leaders in different fields provide background on the development of their ideas Where once psychologists and a few zoologists had this field to themselves now various types of computer scientists have added great energy to the mix

Psychophysics Beyond Sensation Christian Kaernbach, Erich Schröger, Hermann Müller, Hermann Müller, Erich Schröger, 2004-05-20 This volume presents a series of studies that expand laws invariants and principles of psychophysics beyond its classical domain of sensation This book's goal is to demonstrate the extent of the domain of psychophysics ranging from sensory processes through sensory memory and short term memory issues to the interaction between sensation and action The dynamics and timing of human performance are a further important issue within this extended framework of psychophysics Given the similarity of the various cortical areas in terms of their neuroanatomical structure it is an important question whether this similarity is paralleled by a similarity of processes These issues are addressed by the contributions in the present volume using state of the art research methods in behavioral research psychophysiology and mathematical modeling The book is divided into four sections Part I presents contributions concerning the classical domain of psychophysical judgment The next two parts are concerned with elementary and higher order processes and the concluding section deals with psychophysical models The sections are introduced by guest editorials contributed by independent authors These editorials present the authors personal view on the respective section providing an integrated account of the various contributions or highlighting their focus of interest among them While also voicing their own and sometimes different point of view they contribute to the process of discussion that makes science so exciting This volume should be of great interest to advanced students in neuroscience cognitive science psychology neuropsychology and related areas who seek to evaluate the range and power of psychological work today Established scientists in those fields will also appreciate the variety of issues addressed within the same methodological framework and their multiple interconnections and stimulating cross talk

Nonlinear Dynamics in Human Behavior Raoul Huys, Viktor K. Jirsa, 2010-12-08 Humans engage in a seemingly endless variety of different behaviors of which some are found across species while others are conceived of as typically human Most generally behavior comes about through the interplay of

various constraints informational mechanical neural metabolic and so on operating at multiple scales in space and time Over the years consensus has grown in the research community that rather than investigating behavior only from bottom up it may be also well understood in terms of concepts and laws on the phenomenological level Such top down approach is rooted in theories of synergetics and self organization using tools from nonlinear dynamics The present compendium brings together scientists from all over the world that have contributed to the development of their respective fields departing from this background It provides an introduction to deterministic as well as stochastic dynamical systems and contains applications to motor control and coordination visual perception and illusion as well as auditory perception in the context of speech and music

Behavioral Development Kathryn E. Hood, Gary Greenberg, Ethel Tobach, 2013-11-26 First Published in 1995 Behavioral Development is Volume 1 in the Research and Developmental and Comparative Psychology series dedicated to honour the contributions of T C Schneirla This volume represents the substantive content of the Fifth T C Schneirla Conference held in November of 1989 The volume is divided into three parts the significance of the intensity of the adequate stimulus the process of development and the concept of integrative levels Schneirla is still recognized as one of the foremost theoreticians in comparative psychology and the rebirth of interest in comparative psychology is evident

New Paradigms in Ergonomics Neville A. Stanton, Paul M. Salmon, Guy Walker, 2020-04-28 The systems in which we work continue to evolve creating emergent problems and often strengthening intractable issues In order to remain relevant and impactful the discipline of ergonomics needs its paradigms to evolve too The aim of this book is to provide researchers and practitioners with new paradigms in the form of ideas concepts theories methods practices and values The chapters take the reader on a journey through underlying theories new ways to apply those theories and emerging domains in which ergonomics is expected to play a greater role Readers of this book will be inspired by these new paradigms in ergonomics and seek to push the boundaries even further The lifeblood of the science depends on continual evolvement and developments to take on the challenges we face in complex sociotechnical systems design and evaluation Perhaps the most significant take home message from this book is the demonstration of how theory maps onto practice As such the only remaining paradigm shift is for these ideas concepts methods and practices to be taken up more widely and the discipline advanced until the next paradigm shift occurs The chapters were originally published as a special issue in the journal Ergonomics

Foundations of Perceptual Theory S.C. Masin, 1993-06-30 Historical analysis reveals that perceptual theories and models are doomed to relatively short lives The most popular contemporary theories in perceptual science do not have as wide an acceptance among researchers as do some of those in other sciences To understand these difficulties the authors of the present volume explore the conceptual and philosophical foundations of perceptual science Based on logical analyses of various problems theories and models they offer a number of reasons for the current weakness of perceptual explanations New theoretical approaches are also proposed At the end of each chapter dicussants contribute to the conclusions by critically examining the authors ideas and analyses

Psychophysics George A. Gescheider, 2013-06-17 This third edition of a classic text which was first published in 1976 is the only comprehensive up to date presentation of psychophysics currently available It has been used by undergraduate and graduate students and scholars throughout the world and is consistently thought of as the best single source for learning the basic principles of psychophysics The coverage of the field is comprehensive including topics ranging from the classical methods of threshold measurement to the modern methods of detection theory to psychophysical scaling of sensation magnitude The approach is one in which methods theories and applications are described for each experimental procedure New features found in this third edition include methodological and theoretical contributions made in the field during this time period descriptions of adaptive procedures for measuring thresholds context effects in scaling theory of quantal fluctuations multidimensional scaling nonmetric scaling of sensory differences and the relationship between the size of the DL and the slope of the sensation magnitude function new methods for measuring the observer's sensitivity of criterion and an expanded discussion of category scaling including the range frequency model and verbally labeled categories and methods used to control the observer's nonlinear use of numbers in magnitude estimation such as line length scaling magnitude matching master scaling and category ratio scaling

This book delves into Nonlinear Psychophysical Dynamics. Nonlinear Psychophysical Dynamics is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Nonlinear Psychophysical Dynamics, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
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 - Chapter 2: Essential Elements of Nonlinear Psychophysical Dynamics
 - Chapter 3: Nonlinear Psychophysical Dynamics in Everyday Life
 - Chapter 4: Nonlinear Psychophysical Dynamics in Specific Contexts
 - Chapter 5: Conclusion
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 5. In chapter 4, the author will scrutinize the relevance of Nonlinear Psychophysical Dynamics in specific contexts. This chapter will explore how Nonlinear Psychophysical Dynamics is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Nonlinear Psychophysical Dynamics. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Nonlinear Psychophysical Dynamics.

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