



**fluctuations  
and scaling  
in biology**

TAMÁS VICSEK

OXFORD

# Fluctuations And Scaling In Biology

**SA Adler**



## Fluctuations And Scaling In Biology:

**Fluctuations and Scaling in Biology** Tamás Vicsek, 2001 During the last decade the well established tools of statistical physics have been successfully applied to an increasing number of biological phenomena It is a fruitful approach to systems characterised by fluctuations and or a large number of very similar units and such systems are common in biology whether it be the individuals in the codons of a genetic code or the behavioural responses of macromolecules to thermal fluctuations This book is thus able to cover a wide range of phenomena including fractal pattern formation group motion in organisms from bacteria to humans or the mechanisms by which fluctuations are rectified in the cell's molecular machinery This book provides a summary of the majority of recent approaches and concepts born in the study of biological phenomena involving collective behaviour and random perturbation as well as presenting some of the most important new results to specialist researchers It is particularly a key text for all students of scaling and fluctuations in biology

**Fluctuations and Scaling in Biology** Thomas Vicsek, Fluctuations and Noise in Biological, Biophysical, and Biomedical Systems Sergey M. Bezrukov, Hans Frauenfelder, Frank Moss, 2003 *Econophysics of Stock and other Markets* Arnab Chatterjee, Bikas K. Chakrabarti, 2007-12-31 Reviews the econophysics researches on the fluctuations in stock forex and other markets Including some historical perspectives as well as some comments and debates on issues in econophysics research this book also discusses the statistical modeling of markets using various agent based game theoretical approaches and their scaling analysis

*Emergent Nature: Patterns, Growth And Scaling In The Sciences* Miroslav M Novak, 2002-02-04 This book based on presentations made at the international conference Fractals 2002 is of interest to everyone in the general field of nonlinear dynamics The abundance of papers from numerous disciplines makes it exciting reading and provides a unifying thread through the topics such as ray tracing structure of peptides modeling fractal surfaces cancer growth macaque monkey cortical neurons occurrence of earthquakes and patterns of the World Wide Web

Fractal Fluctuations and Climate Cycles in Atmospheric Flows A.M. Selvam, 2025-05-04 Within this book the author has developed a general systems theory based on classical statistical physics for fractal fluctuations which predicts the following i The fractal fluctuations signify an underlying eddy continuum the larger eddies being the integrated mean of enclosed smaller scale fluctuations ii the probability distribution of eddy amplitudes and the variance square of eddy amplitude spectrum of fractal fluctuations follow the universal Boltzmann inverse power law expressed as a function of the golden mean iii fractal fluctuations are signatures of quantum like chaos since the additive amplitudes of eddies when squared represent probability densities analogous to the sub atomic dynamics of quantum systems such as the photon or electron iv the model predicted distribution is very close to statistical normal distribution for moderate events within two standard deviations from the mean but exhibits a fat long tail that are associated with hazardous extreme events

Empirical Science of Financial Fluctuations Hideki Takayasu, 2013-03-14 Financial fluctuations were generally neglected in classical economics and their basic statistical

properties have only recently been elucidated in the emerging field of econophysics a new science that analyzes data using methods developed by statistical physics such as chaos fractals and phase transitions This volume is the proceedings of a workshop at which leading international researchers in this discipline discussed their most recent results and examined the validity of the empirical laws of econophysics Topics include stock market prices and foreign exchange rates income distribution market anomalies and risk management The papers herein relate econophysics to other models present new models and illustrate the mechanisms by which financial fluctuations occur using actual financial data Containing the most recent econophysics results this volume will serve as an indispensable reference for economic theorists and practitioners alike

**Scale Invariance and Beyond** B. Dubrulle, F. Graner, D. Sornette, 2013-11-09 This book is an excellent introduction to the concept of scale invariance which is a growing field of research with wide applications It describes where and how symmetry under scale transformation and its various forms of partial breakdown can be used to analyze solutions of a problem without the need to explicitly solve it The first part gives descriptions of tools and concepts the second is devoted to recent attempts to go beyond the invariance or symmetry breaking to discuss causes and consequences and to extract useful information about the system Examples are carefully worked out in fields as diverse as condensed matter physics population dynamics earthquake physics turbulence cosmology and finance

**Photosynthesis in a Changing Global Climate: a Matter of Scale** Iker Aranjuelo, Marouane Baslam, Alvaro Sanz-Saez, 2021-02-25

**Noise in Physical Systems and 1/f Fluctuations** T. Musha, Shunsuke Sato, Mitsuaki Yamamoto, 1992 Presents and discusses fundamental aspects and key implications of noise and fluctuations in various fields of science technology and sociology with special emphasis in 1/f fluctuations in biology There are contributions from leading international experts

*Size- and Age-Related Changes in Tree Structure and Function* Frederick C. Meinzer, Barbara Lachenbruch, Todd E. Dawson, 2011-06-29 Millions of trees live and grow all around us and we all recognize the vital role they play in the world's ecosystems Publicity campaigns exhort us to plant yet more Yet until recently comparatively little was known about the root causes of the physical changes that attend their growth Since trees typically increase in size by three to four orders of magnitude in their journey to maturity this gap in our knowledge has been a crucial issue to address Here at last is a synthesis of the current state of our knowledge about both the causes and consequences of ontogenetic changes in key features of tree structure and function During their ontogeny trees undergo numerous changes in their physiological function the structure and mechanical properties of their wood and overall architecture and allometry This book examines the central interplay between these changes and tree size and age It also explores the impact these changes can have at the level of the individual tree on the emerging characteristics of forest ecosystems at various stages of their development The analysis offers an explanation for the importance of discriminating between the varied physical properties arising from the nexus of size and age as well as highlighting the implications these ontogenetic changes have for commercial forestry and climate change This important and timely summation of our

knowledge base in this area written by highly respected researchers will be of huge interest not only to researchers but also to forest managers and silviculturists

Astrobiology Gerda Horneck,Christa Baumstark-Khan,2012-12-06 How did life originate in the universe How did it all start after the creation of matter and the formation of elements in the stars What are the pathways from the first organic molecules in space to the evolution of complex life forms on Earth and perhaps elsewhere And how will it all end The Universe itself sets the stage for the very interdisciplinary field of astrobiology that attempts to answer such questions the central one being What is the cosmic recipe for life Currently there are only very few known elements in this vast mosaic This book bridges a gap in the literature by bringing together leading specialists from different backgrounds who lecture on their fields with close relevance to astrobiology providing tutorial accounts that lead all the way to the forefront of research The book will thus be useful for students lecturers and researchers alike

**Analysis of Environmental Issues Related to Small-scale Hydroelectric Development** ,1980 Arthropod Management and Landscape Considerations in Large-Scale Agroecosystems Michael J. Brewer,Gary L. Hein,2024-08-16 For large scale agroecosystems patterns of pest population increases graded increases or abrupt outbreaks and declines graded suppression or abrupt crashes vary considerably and are influenced by factors within crop fields and across broader landscape scales Better understanding of pest population dynamics and the implications of spatial interactions on the function and development of pest management approaches are the main themes of this important book The book builds from a 60 year history of field based pest management by focusing on the drivers of pest management in large scale agroecosystems and the landscape scale processes that affect these drivers and contribute to variation in pest outbreaks and suppression These drivers include abiotic and biotic influences such as weather spatial composition and arrangement of landscape elements and widely applied managed inputs such as planting and crop rotation schedules crop varietal selection and land and soil conservation efforts The book introduces general concepts opportunities and challenges of arthropod management in large scale agroecosystems The book is essential reading for researchers in applied entomology and ecology and for pest management practitioners

**Chaotic Dna Dynamics** Amujuri Mary Selvam,2022-05-30 A general systems theory model predicts quasiperiodic Penrose tiling pattern for the nested coiled structure of the DNA molecule in the chromosome resulting in maximum packing efficiency and unified whole fuzzy logic network architecture with ordered two way signal transmission between the coding and non coding junk DNA regions Junk DNA are not redundant Modification of the DNA base sequence structure at any location may have significant noticeable effects on the function of the DNA molecule as a whole This book helps us understand the cooperative existence of individual components for optimum performance of the system

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**Criticality as a signature of healthy neural systems: multi-scale experimental and computational studies** Paolo Massobrio, Lucilla de Arcangelis, Valentina Pasquale, Henrik Jeldtoft Jensen, Dietmar Plenz, 2015-05-08 Since 2003 when spontaneous activity in cortical slices was first found to follow scale free statistical distributions in size and duration increasing experimental evidences and theoretical models have been reported in the literature supporting the emergence of evidence of scale invariance in the cortex Although strongly debated such results refer to many different in vitro and in vivo preparations awake monkeys anesthetized rats and cats in vitro slices and dissociated cultures suggesting that power law distributions and scale free correlations are a very general and robust feature of cortical activity that has been conserved across species as specific substrate for information storage transmission and processing Equally important is that the features reminiscent of scale invariance and criticality are observed at scale spanning from the level of interacting arrays of neurons all the way up to correlations across the entire brain Thus if we accept that the brain operates near a critical point little is known about the causes and or consequences of a loss of criticality and its relation with brain diseases e g epilepsy The study of how pathogenetical mechanisms are related to the critical non critical behavior of neuronal networks would likely provide new insights into the cellular and synaptic determinants of the emergence of critical like dynamics and structures in neural systems At the same time the relation between the impaired behavior and the disruption of criticality would help clarify its role in normal brain function The main objective of this Research Topic is to investigate the emergence disruption of the emergent critical like states in healthy impaired neural systems

**Introduction to Population Ecology** Larry L. Rockwood, 2009-03-12 Introduction to Population Ecology is an accessible and up to date textbook covering all aspects of population ecology Discusses field and laboratory data to illustrate the fundamental laws of population ecology Provides an overview of how population theory has developed Explores single species population growth and self limitation metapopulations and a broad range of interspecific interactions including parasite host predator prey and plant herbivore Keeps the mathematics as simple as possible using a careful step by step approach and including graphs and other visual aids to help understanding Artwork from the book is available to instructors online at [www.blackwellpublishing.com/rockwood](http://www.blackwellpublishing.com/rockwood) and by request on CD ROM

**Conservation Paleobiology** Gregory P. Dietl, Karl W. Flessa, 2017-11-17 In conservation perhaps no better example exists of the past informing the present than the

return of the California condor to the Vermilion Cliffs of Arizona Extinct in the region for nearly one hundred years condors were successfully reintroduced starting in the 1990s in an effort informed by the fossil record condor skeletal remains had been found in the area s late Pleistocene cave deposits The potential benefits of applying such data to conservation initiatives are unquestionably great yet integrating the relevant disciplines has proven challenging Conservation Paleobiology gathers a remarkable array of scientists from Jeremy B C Jackson to Geerat J Vermeij to provide an authoritative overview of how paleobiology can inform both the management of threatened species and larger conservation decisions Studying endangered species is difficult They are by definition rare some exist only in captivity and for those still in their native habitats any experimentation can potentially have a negative effect on survival Moreover a lack of long term data makes it challenging to anticipate biotic responses to environmental conditions that are outside of our immediate experience But in the fossil and pefossil records from natural accumulations such as reefs shell beds and caves to human made deposits like kitchen middens and archaeological sites enlightening parallels to the Anthropocene can be found that might serve as a primer for present day predicaments Offering both deep time and near time perspectives and exploring a range of ecological and evolutionary dynamics and taxa from terrestrial as well as aquatic habitats Conservation Paleobiology is a sterling demonstration of how the past can be used to manage for the future giving new hope for the creation and implementation of successful conservation programs

**Information and Communication Technologies in Education, Research, and Industrial Applications** Grigoris Antoniou, Vadim Ermolayev, Vitaliy Kobets, Vira Liubchenko, Heinrich C. Mayr, Aleksander Spivakovsky, Vitaliy Yakovyna, Grygoriy Zholtkevych, 2023-11-30 This book constitutes the proceedings of the 18th International Conference ICTERI 2023 held in Ivano Frankivsk Ukraine during September 18 22 2023 The 21 full papers included in this volume were carefully reviewed and selected from 90 submissions The volume focuses on research advances in ICT business or academic applications of ICT and design and deployment of ICT infrastructures

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