



Branching Processes and Neutral Evolution (Lecture Notes in Biomathematics)

Taib, Ziad

Note: This is not the actual book cover

Branching Processes And Neutral Evolution

**D N Shanbhag, Calyampudi
Radhakrishna Rao**



Branching Processes And Neutral Evolution:

Branching Processes and Neutral Evolution Ziad Taib, 2013-03-09 The Galton Watson branching process has its roots in the problem of extinction of family names which was given a precise formulation by F Galton as problem 4001 in the Educational Times 17 1873 In 1875 an attempt to solve this problem was made by H W Watson but as it turned out his conclusion was incorrect Half a century later R A Fisher made use of the Galton Watson process to determine the extinction probability of the progeny of a mutant gene However it was J B S Haldane who finally gave the first sketch of the correct conclusion J B S Haldane also predicted that mathematical genetics might some day develop into a respectable branch of applied mathematics quoted in M Kimura T Ohta Theoretical Aspects of Population Genetics Princeton 1971 Since the time of Fisher and Haldane the two fields of branching processes and mathematical genetics have attained a high degree of sophistication but in different directions This monograph is a first attempt to apply the current state of knowledge concerning single type branching processes to a particular area of mathematical genetics neutral evolution The reader is assumed to be familiar with some of the concepts of probability theory but no particular knowledge of branching processes is required Following the advice of an anonymous referee I have enlarged my original version of the introduction Chapter Zero in order to make it accessible to a larger audience G6teborg Sweden November 1991 *Branching Processes in Biology* Marek Kimmel, David E. Axelrod, 2015-02-17 This book provides a theoretical background of branching processes and discusses their biological applications Branching processes are a well developed and powerful set of tools in the field of applied probability The range of applications considered includes molecular biology cellular biology human evolution and medicine The branching processes discussed include Galton Watson Markov Bellman Harris Multitype and General Processes As an aid to understanding specific examples two introductory chapters and two glossaries are included that provide background material in mathematics and in biology The book will be of interest to scientists who work in quantitative modeling of biological systems particularly probabilists mathematical biologists biostatisticians cell biologists molecular biologists and bioinformaticians The authors are a mathematician and cell biologist who have collaborated for more than a decade in the field of branching processes in biology for this new edition This second expanded edition adds new material published during the last decade with nearly 200 new references More material has been added on infinitely dimensional multitype processes including the infinitely dimensional linear fractional case Hypergeometric function treatment of the special case of the Griffiths Pakes infinite allele branching process has also been added There are additional applications of recent molecular processes and connections with systems biology are explored and a new chapter on genealogies of branching processes and their applications Reviews of First Edition This is a significant book on applications of branching processes in biology and it is highly recommended for those readers who are interested in the application and development of stochastic models particularly those with interests in cellular and molecular biology Siam Review Vol 45 2 2003 This book

will be very interesting and useful for mathematicians statisticians and biologists as well and especially for researchers developing mathematical methods in biology medicine and other natural sciences Short Book Reviews of the ISI Vol 23 2 2003 **Labeled Branching Processes with Applications to Neutral Evolution Theory** Ziad Taib,Ziad Taïb,1987

Labelled Branching Processes with Applications to Neutral Evolution Theory Ziad Taïb,1987 **Stochastic Processes: Modeling and Simulation** D N Shanbhag,Calyampudi Radhakrishna Rao,2003-02-24 This sequel to volume 19 of Handbook on Statistics on Stochastic Processes Modelling and Simulation is concerned mainly with the theme of reviewing and in some cases unifying with new ideas the different lines of research and developments in stochastic processes of applied flavour This volume consists of 23 chapters addressing various topics in stochastic processes These include among others those on manufacturing systems random graphs reliability epidemic modelling self similar processes empirical processes time series models extreme value theory applications of Markov chains modelling with Monte Carlo techniques and stochastic processes in subjects such as engineering telecommunications biology astronomy and chemistry particular with modelling simulation techniques and numerical methods concerned with stochastic processes The scope of the project involving this volume as well as volume 19 is already clarified in the preface of volume 19 The present volume completes the aim of the project and should serve as an aid to students teachers researchers and practitioners interested in applied stochastic processes Workshop on Branching Processes and Their Applications Miguel González,Inés M. Puerto,Rodrigo Martínez,Manuel Molina,Manuel Mota,Alfonso Ramos,2010-03-02 One of the charms of mathematics is the contrast between its generality and its applicability to concrete even everyday problems Branching processes are typical in this Their niche of mathematics is the abstract pattern of reproduction sets of individuals changing size and composition through their members reproducing in other words what Plato might have called the pure idea behind demography population biology cell kinetics molecular replication or nuclear fission had he known these scientific fields Even in the performance of algorithms for sorting and classification there is an inkling of the same pattern In special cases general properties of the abstract ideal then interact with the physical or biological or whatever properties at hand But the population or branching pattern is strong it tends to dominate and here lies the reason for the extreme usefulness of branching processes in diverse applications Branching is a clean and beautiful mathematical pattern with an intellectually challenging intrinsic structure and it pervades the phenomena it underlies **Stochastic Processes in Genetics and Evolution** Charles J. Mode,Candace K. Sleeman,2012 The scope of this book is the field of evolutionary genetics The book contains new methods for simulating evolution at the genomic level It sets out applications using up to date Monte Carlo simulation methods applied in classical population genetics and sets out new fields of quantifying mutation and selection at the Mendelian level A serious limitation of Wright Fisher process the assumption that population size is constant motivated the introduction of self regulating branching processes in this book While providing a short review of the principles of probability and its application and using computer

intensive methods whilst applying these principles this book explains how it is possible to derive new formulas expressed in terms of matrix algebra providing new insights into the classical Wright Fisher processes of evolutionary genetics Also covered are the development of new methods for studying genetics and evolution simulating nucleotide substitutions of a DNA molecule and on self regulating branching processes Components of natural selection are studied in terms of reproductive success of each genotype whilst also studying the differential ability of genotypes to compete for resources and sexual selection The concept of the gene is also reviewed in this book and it provides a current definition of a gene based on very recent experiments with micro array technologies A development of stochastic models for simulating the evolution of model genomes concludes the studies in this book Deserving of a place on the book shelves of workers in biomathematics applied probability stochastic processes and statistics as well as in bioinformatics and phylogenetics it will also be relevant to those interested in computer simulation and evolutionary biologists interested in quantitative methods Selected Proceedings of the Sheffield Symposium on Applied Probability Ishwar V. Basawa,Robert Lee Taylor,1991 *Basic Concepts and Recent Advances in Microbial Diversity, Taxonomy, Speciation and Evolution* Suchitra Godbole,Dhara P. Sachdev,2024-03-05 This book delves into the fundamental principles that underpin the classification and understanding of bacteria from the basic concepts to the latest advances This book encompasses numerous topics related to diversity such as speciation and evolution of species microbial diversity and methods for estimating diversity and taxonomy of bacteria The reader can gain valuable insights into the cutting edge techniques used to identify and classify bacteria such as genomics metagenomics and phylogenetic analysis With expert contributions from leading scientists this comprehensive guide offers a holistic view of the microbial world in the context of their role in global biodiversity and explores the upcoming role of machine learning and artificial intelligence for exploration of bacterial diversity For students and researchers in microbiology genetics and biotechnology this book is an essential resource for unravelling the mysteries of bacterial speciation evolution diversity and taxonomy *Spin Glass Theory And Beyond: An Introduction To The Replica Method And Its Applications* Marc Mezard,Giorgio Parisi,Miguel Angel Virasoro,1987-11-01 This book contains a detailed and self contained presentation of the replica theory of infinite range spin glasses The authors also explain recent theoretical developments paying particular attention to new applications in the study of optimization theory and neural networks About two thirds of the book are a collection of the most interesting and pedagogical articles on the subject

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