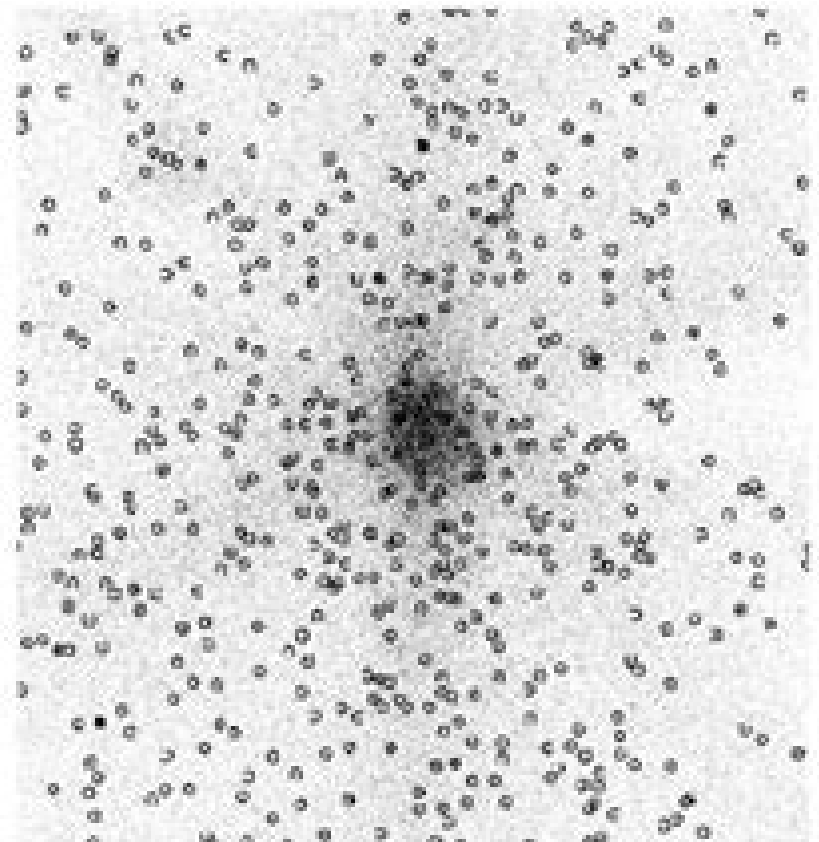
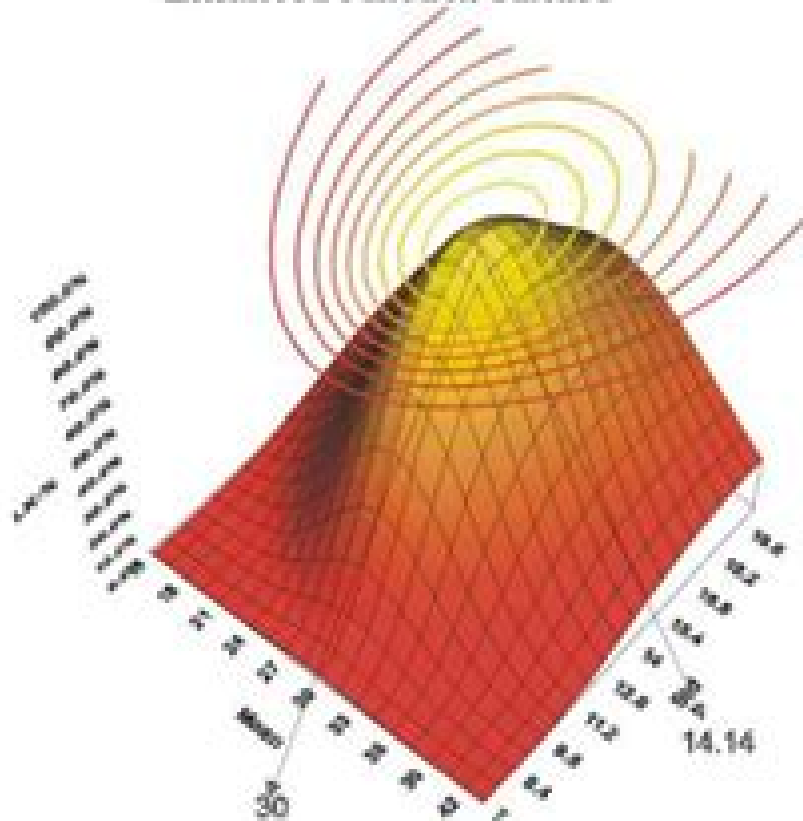


Parameter estimation

Parameter – the true population value of interest, expressed as a number.

Estimator – an estimator is a mathematical expression that indicates how to calculate an estimate of a parameter from the sample data.

Likelihood Function Surface



Parameter Estimation In Ecology

A. R. Burk



Parameter Estimation In Ecology:

Population Parameters Hamish McCallum, 2008-04-15 Ecologists and environmental managers rely on mathematical models both to understand ecological systems and to predict future system behavior. In turn, models rely on appropriate estimates of their parameters. This book brings together a diverse and scattered literature to provide clear guidance on how to estimate parameters for models of animal populations. It is not a recipe book of statistical procedures. Instead, it concentrates on how to select the best approach to parameter estimation for a particular problem and how to ensure that the quality estimated is the appropriate one for the specific purpose of the modelling exercise. Commencing with a toolbox of useful generic approaches to parameter estimation, the book deals with methods for estimating parameters for single populations. These parameters include population size, birth and death rates, and the population growth rate. For such parameters, rigorous statistical theory has been developed, and software is readily available. The problem is to select the optimal sampling design and method of analysis. The second part of the book deals with parameters that describe spatial dynamics and ecological interactions such as competition, predation, and parasitism. Here, the principle problems are designing appropriate experiments and ensuring that the quantities measured by the experiments are relevant to the ecological models in which they will be used. This book will be essential reading for ecological researchers, postgraduate students, and environmental managers who need to address an ecological problem through a population model. It is accessible to anyone with an understanding of basic statistical methods and population ecology. Unique in concentrating on parameter estimation within modelling. Fills a glaring gap in the literature. Not too technical, so suitable for the statistically inept. Methods explained in algebra, but also in worked examples using commonly available computer packages: SAS, GLIM, and some more specialised packages where relevant. Some spreadsheet-based examples also included. *Parameter Estimation in Ecology* Otto Richter, Dagmar Söndgerath, 1990-02-28 This book is unique in that it combines ecological model building and the application of advanced statistical methods for parameter estimation. Written for model builders and statisticians in the field of ecology, it provides the statistical and numerical tools needed to estimate parameters from experimental data. These tools range from standard methods to highly advanced ones for parameter identification using ordinary differential equations. Detailed examples based on real data illustrate their use. It provides the necessary link between data and models, between simulation and statistics. *Parameter Estimation in Ecology* Otto Richter, Dagmar Sönderath, 1990 Parameter Estimation for Animal Populations Larkin Powell, George Gale, 2015 This book is a simple introduction to the logic behind analyses and sampling design for mark-recapture and survey efforts. With a focus on the early user and beginner, the book explains the complicated formulas and statistics that can be effectively used around the world in support of conservation efforts. *Model Calibration and Parameter Estimation* Ne-Zheng Sun, Alexander Sun, 2015-07-01 This three-part book provides a comprehensive and systematic introduction to these challenging topics such as model calibration, parameter

estimation reliability assessment and data collection design Part 1 covers the classical inverse problem for parameter estimation in both deterministic and statistical frameworks Part 2 is dedicated to system identification hyperparameter estimation and model dimension reduction and Part 3 considers how to collect data and construct reliable models for prediction and decision making For the first time topics such as multiscale inversion stochastic field parameterization level set method machine learning global sensitivity analysis data assimilation model uncertainty quantification robust design and goal oriented modeling are systematically described and summarized in a single book from the perspective of model inversion and elucidated with numerical examples from environmental and water resources modeling Readers of this book will not only learn basic concepts and methods for simple parameter estimation but also get familiar with advanced methods for modeling complex systems Algorithms for mathematical tools used in this book such as numerical optimization automatic differentiation adaptive parameterization hierarchical Bayesian metamodeling Markov chain Monte Carlo are covered in details This book can be used as a reference for graduate and upper level undergraduate students majoring in environmental engineering hydrology and geosciences It also serves as an essential reference book for professionals such as petroleum engineers mining engineers chemists mechanical engineers biologists biology and medical engineering applied mathematicians and others who perform mathematical modeling

Capture-Recapture: Parameter Estimation for

Open Animal Populations George A. F. Seber, Matthew R. Schofield, 2019-08-13 This comprehensive book rich with applications offers a quantitative framework for the analysis of the various capture recapture models for open animal populations while also addressing associated computational methods The state of our wildlife populations provides a litmus test for the state of our environment especially in light of global warming and the increasing pollution of our land seas and air In addition to monitoring our food resources such as fisheries we need to protect endangered species from the effects of human activities e g rhinos whales or encroachments on the habitat of orangutans Pests must be controlled whether insects or viruses and we need to cope with growing feral populations such as opossums rabbits and pigs Accordingly we need to obtain information about a given population s dynamics concerning e g mortality birth growth breeding sex and migration and determine whether the respective population is increasing static or declining There are many methods for obtaining population information but the most useful and most work intensive is generically known as capture recapture where we mark or tag a representative sample of individuals from the population and follow that sample over time using recaptures resightings or dead recoveries Marks can be natural such as stripes fin profiles and even DNA or artificial such as spots on insects Attached tags can for example be simple bands or streamers or more sophisticated variants such as radio and sonic transmitters To estimate population parameters sophisticated and complex mathematical models have been devised on the basis of recapture information and computer packages This book addresses the analysis of such models It is primarily intended for ecologists and wildlife managers who wish to apply the methods to the types of problems discussed

above though it will also benefit researchers and graduate students in ecology Familiarity with basic statistical concepts is essential

Entropy-Based Parameter Estimation in Hydrology V.P. Singh, 2013-04-17 Since the pioneering work of Shannon in the late 1940s on the development of the theory of entropy and the landmark contributions of Jaynes a decade later leading to the development of the principle of maximum entropy POME the concept of entropy has been increasingly applied in a wide spectrum of areas including chemistry electronics and communications engineering data acquisition and storage and retrieval data monitoring network design ecology economics environmental engineering earth sciences fluid mechanics genetics geology geomorphology geophysics geotechnical engineering hydraulics hydrology image processing management sciences operations research pattern recognition and identification photogrammetry psychology physics and quantum mechanics reliability analysis reservoir engineering statistical mechanics thermodynamics topology transportation engineering turbulence modeling and so on New areas finding application of entropy have since continued to unfold The entropy concept is indeed versatile and its applicability widespread In the area of hydrology and water resources a range of applications of entropy have been reported during the past three decades or so This book focuses on parameter estimation using entropy for a number of distributions frequently used in hydrology In the entropy based parameter estimation the distribution parameters are expressed in terms of the given information called constraints Thus the method lends itself to a physical interpretation of the parameters Because the information to be specified usually constitutes sufficient statistics for the distribution under consideration the entropy method provides a quantitative way to express the information contained in the distribution

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Louis Gross, 2012-05-31 This major reference is an overview of the current state of theoretical ecology through a series of topical entries centered on both ecological and statistical themes Coverage ranges across scales from the physiological to populations landscapes and ecosystems Entries provide an introduction to broad fields such as Applied Ecology Behavioral Ecology Computational Ecology Ecosystem Ecology Epidemiology and Epidemic Modeling Population Ecology Spatial Ecology and Statistics in Ecology Others provide greater specificity and depth including discussions on the Allee effect ordinary differential equations and ecosystem services Descriptions of modern statistical and modeling approaches and how they contributed to advances in theoretical ecology are also included Succinct uncompromising and authoritative a must have for those interested in the use of theory in the ecological sciences **Unifying Ecology Across Scales: Progress, Challenges and Opportunities** Mary I. O'Connor, Diego Barneche, Julie Messier, Angelica L. Gonzalez, 2020-12-29 This eBook is a

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Systems Analysis and Simulation in Ecology Bernard C. Patten, 2013-09-11 Systems Analysis and Simulation in Ecology Volume I is a book of ecology in transition from a soft science synecology to a hard science systems ecology It is an enthusiastic and optimistic statement about the fundamental adaptability of the scientific mechanism to newly appreciated truths of existence It documents in ecological science a move away from the explanatory or cognitive criterion toward the predictive criterion a hard one with the potential of leading ultimately to optimal design and control of ecosystems The book is organized into three parts Part I is an overview of some of the methods and rationales for ecological systems modeling for the purposes of simulation and systems analysis It provides an elementary introduction to the use of analog and digital computers for simulation and a rationale for ecological model building Part II illustrates three different approaches to population modeling

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Integrated Population Models Michael Schaub, Marc Kéry, 2021-11-16 Integrated Population Models Theory and Ecological Applications with R and JAGS is the first book on integrated population models which constitute a powerful framework for combining multiple data sets from the population and the individual levels to estimate demographic parameters and population size and trends These models identify drivers of population dynamics and forecast the composition and trajectory of a population Written by two population ecologists with expertise on integrated population modeling this book provides a comprehensive synthesis of the relevant theory of integrated population models with an extensive overview of practical applications using Bayesian methods by means of case studies The book contains fully documented complete code for fitting all models in the free software R and JAGS It also includes all required code for pre and post model fitting analysis Integrated Population Models is an invaluable reference for researchers and practitioners involved in population analysis and for graduate level students in ecology conservation biology wildlife management and related fields The text is ideal for self study and advanced graduate level courses Offers practical and accessible ecological applications of IPMs integrated population models Provides full documentation of analyzed code in the Bayesian framework Written and structured for an easy approach to the subject especially for non statisticians

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