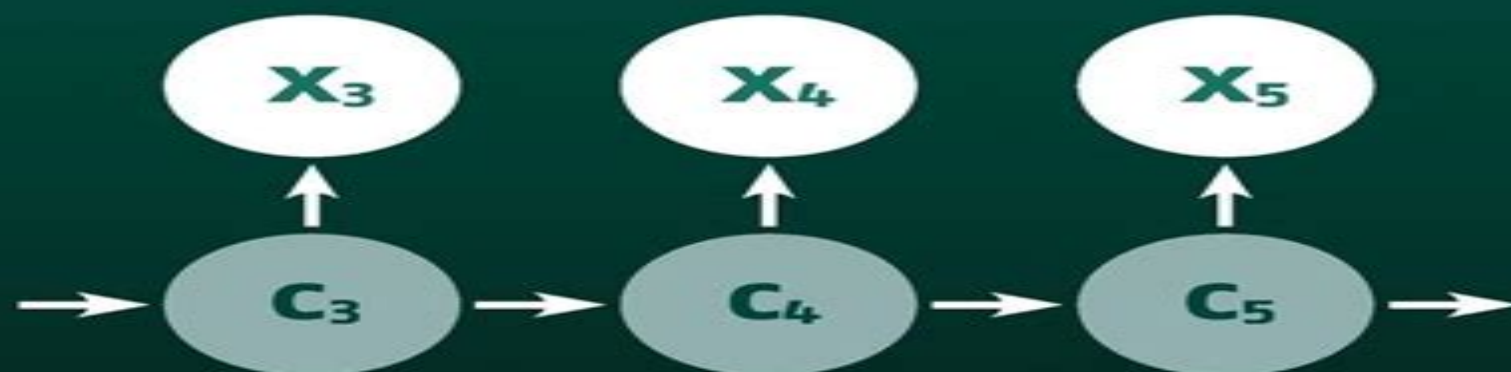


Hidden Markov Models for Time Series

An Introduction Using R

Second Edition



Walter Zucchini
Iain L. MacDonald
Roland Langrock



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Hidden Markov Models for Time Series W. Zucchini, 2016 *Hidden Markov Models for Time Series* Walter Zucchini, Iain L. MacDonald, Roland Langrock, 2016 Hidden Markov Models HMMs remains a vibrant area of research in statistics with many new applications appearing since publication of the first edition **Hidden Markov Models for Time Series** Walter Zucchini, Iain L. MacDonald, Roland Langrock, 2017-12-19 Hidden Markov Models for Time Series An Introduction Using R Second Edition illustrates the great flexibility of hidden Markov models HMMs as general purpose models for time series data The book provides a broad understanding of the models and their uses After presenting the basic model formulation the book covers estimation forecasting decoding prediction model selection and Bayesian inference for HMMs Through examples and applications the authors describe how to extend and generalize the basic model so that it can be applied in a rich variety of situations The book demonstrates how HMMs can be applied to a wide range of types of time series continuous valued circular multivariate binary bounded and unbounded counts and categorical observations It also discusses how to employ the freely available computing environment R to carry out the computations Features Presents an accessible overview of HMMs Explores a variety of applications in ecology finance epidemiology climatology and sociology Includes numerous theoretical and programming exercises Provides most of the analysed data sets online New to the second edition A total of five chapters on extensions including HMMs for longitudinal data hidden semi Markov models and models with continuous valued state process New case studies on animal movement rainfall occurrence and capture recapture data

Probabilistic Foundations of Statistical Network Analysis Harry Crane, 2018-04-17 Probabilistic Foundations of Statistical Network Analysis presents a fresh and insightful perspective on the fundamental tenets and major challenges of modern network analysis Its lucid exposition provides necessary background for understanding the essential ideas behind exchangeable and dynamic network models network sampling and network statistics such as sparsity and power law all of which play a central role in contemporary data science and machine learning applications The book rewards readers with a clear and intuitive understanding of the subtle interplay between basic principles of statistical inference empirical properties of network data and technical concepts from probability theory Its mathematically rigorous yet non technical exposition makes the book accessible to professional data scientists statisticians and computer scientists as well as practitioners and researchers in substantive fields Newcomers and non quantitative researchers will find its conceptual approach invaluable for developing intuition about technical ideas from statistics and probability while experts and graduate students will find the book a handy reference for a wide range of new topics including edge exchangeability relative exchangeability graphon and graphex models and graph valued Levy process and rewiring models for dynamic networks The author's incisive commentary supplements these core concepts challenging the reader to push beyond the current limitations of this emerging discipline

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Nonparametric Models for Longitudinal Data Colin O. Wu,Xin Tian,2018-05-23 Nonparametric Models for Longitudinal Data with Implementations in R presents a comprehensive summary of major advances in nonparametric models and smoothing methods with longitudinal data It covers methods theories and applications that are particularly useful for biomedical studies in the era of big data and precision medicine It also provides flexible tools to describe the temporal trends covariate effects and correlation structures of repeated measurements in longitudinal data This book is intended for graduate students in statistics data scientists and statisticians in biomedical sciences and public health As experts in this area the authors present extensive materials that are balanced between theoretical and practical topics The statistical applications in real life examples lead into meaningful interpretations and inferences Features Provides an overview of parametric and semiparametric methods Shows smoothing methods for unstructured nonparametric models Covers structured nonparametric models with time varying coefficients Discusses nonparametric shared parameter and mixed effects models Presents nonparametric models for conditional distributions and functionals Illustrates implementations using R software packages Includes datasets and code in the authors website Contains asymptotic results and theoretical derivations

Multistate Models for the Analysis of Life History Data Richard J Cook,Jerald F. Lawless,2018-05-15 Multistate Models for the Analysis of Life History Data provides the first comprehensive treatment of multistate modeling and analysis including parametric nonparametric and semiparametric methods applicable to many types of life history data Special models such as illness death competing risks and progressive processes are considered as well as more complex models The book provides both theoretical development and illustrations of analysis based on data from randomized trials and observational cohort studies in health research It features Discusses a wide range of applications of multistate models Presents methods for both continuously and intermittently observed life history processes Gives a thorough discussion of conditionally independent censoring and observation processes Discusses models with random effects and joint models for two or more multistate processes Discusses and illustrates software for multistate analysis that is available in R Target audience includes those engaged in research and applications involving multistate models

Mixed Effects Models for the Population Approach Marc Lavielle,2014-07-14 Wide Ranging Coverage of Parametric Modeling in Linear and Nonlinear Mixed Effects Models Mixed Effects Models for the Population Approach Models Tasks Methods and Tools presents a rigorous framework for describing implementing and using mixed effects models With these models readers can perform parameter estimation and modeling across a whole population of individuals at the same time Easy to Use Techniques and Tools for Real World Data Modeling The book first shows how the framework allows model representation for different data types including continuous categorical count and time to event data This leads to the use of generic methods such as the stochastic approximation of the

EM algorithm SAEM for modeling these diverse data types The book also covers other essential methods including Markov chain Monte Carlo MCMC and importance sampling techniques The author uses publicly available software tools to illustrate modeling tasks Methods are implemented in Monolix and models are visually explored using Mlxplore and simulated using Simulx Careful Balance of Mathematical Representation and Practical Implementation This book takes readers through the whole modeling process from defining creating a parametric model to performing tasks on the model using various mathematical methods Statisticians and mathematicians will appreciate the rigorous representation of the models and theoretical properties of the methods while modelers will welcome the practical capabilities of the tools The book is also useful for training and teaching in any field where population modeling occurs

Discrete Stochastic Processes Nicolas Privault, 2024-10-07 This text presents selected applications of discrete time stochastic processes that involve random interactions and algorithms and revolve around the Markov property It covers recurrence properties of excited random walks convergence and mixing of Markov chains distribution modeling using phase type distributions applications to search engines and probabilistic automata and an introduction to the Ising model used in statistical physics Applications to data science are also considered via hidden Markov models and Markov decision processes A total of 32 exercises and 17 longer problems are provided with detailed solutions and cover various topics of interest including statistical learning

The British National Bibliography Arthur James Wells, 2009 Subject Guide to Books in Print, 1996 **Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio, 2005-05

Hidden Markov and Other Models for Discrete-valued Time Series Iain L. MacDonald, Walter Zucchini, 1997-01-01 Discrete valued time series are common in practice but methods for their analysis are not well known In recent years methods have been developed which are specifically designed for the analysis of discrete valued time series Hidden Markov and Other Models for Discrete Valued Time Series introduces a new versatile and computationally tractable class of models the hidden Markov models It presents a detailed account of these models then applies them to data from a wide range of diverse subject areas including medicine climatology and geophysics This book will be invaluable to researchers and postgraduate and senior undergraduate students in statistics Researchers and applied statisticians who analyze time series data in medicine animal behavior hydrology and sociology will also find this information useful

Inference in Hidden Markov Models Olivier Cappé, Eric Moulines, Tobias Rydén, 2005-08-04 This book is a comprehensive treatment of inference for hidden Markov models including both algorithms and statistical theory Topics range from filtering and smoothing of the hidden Markov chain to parameter estimation Bayesian methods and estimation of the number of states In a unified way the book covers both models with finite state spaces and models with continuous state spaces also called state space models requiring approximate simulation based algorithms that are also described in detail Many examples illustrate the algorithms and theory This book builds on recent developments to present a self contained view

Hidden Markov Models and Dynamical Systems Andrew M. Fraser, 2008-01-01 This text provides an introduction to

hidden Markov models HMMs for the dynamical systems community It is a valuable text for third or fourth year undergraduates studying engineering mathematics or science that includes work in probability linear algebra and differential equations The book presents algorithms for using HMMs and it explains the derivation of those algorithms It presents Kalman filtering as the extension to a continuous state space of a basic HMM algorithm The book concludes with an application to biomedical signals This text is distinctive for providing essential introductory material as well as presenting enough of the theory behind the basic algorithms so that the reader can use it as a guide to developing their own variants

Mixture and Hidden Markov Models with R Ingmar Visser, Maarten Speekenbrink, 2022-06-28 This book discusses mixture and hidden Markov models for modeling behavioral data Mixture and hidden Markov models are statistical models which are useful when an observed system occupies a number of distinct regimes or unobserved hidden states These models are widely used in a variety of fields including artificial intelligence biology finance and psychology Hidden Markov models can be viewed as an extension of mixture models to model transitions between states over time Covering both mixture and hidden Markov models in a single book allows main concepts and issues to be introduced in the relatively simpler context of mixture models After a thorough treatment of the theory and practice of mixture modeling the conceptual leap towards hidden Markov models is relatively straightforward This book provides many practical examples illustrating the wide variety of uses of the models These examples are drawn from our own work in psychology as well as other areas such as financial time series and climate data Most examples illustrate the use of the authors depmixS4 package which provides a flexible framework to construct and estimate mixture and hidden Markov models All examples are fully reproducible and the accompanying hmmR package provides all the datasets used as well as additional functionality This book is suitable for advanced students and researchers with an applied background

Hidden Markov Models in Time Series, with Applications in Economics Sylvia Kaufmann, 2016 **Markov Models** Joshua Chapmann, 2017-10-29 What is a MEMORYLESS predictive model Markov models are a powerful predictive technique used to model stochastic systems using time series data They are centered around the fundamental property of memorylessness stating that the outcome of a problem depends only on the current state of the system historical data must be ignored This model construction may sound overly simplistic After all if you have historical data why not use it to develop more complete and well informed models Surely it would lead to more accurate predictions However when modelling time series data where previous results are of limited relevance a memoryless model delivers vast performance advantages By considering only the present state algorithms become highly scalable stable fast and above all else extremely versatile Speech recognition is a perfect example nearly all of today's speech recognition algorithms are built using Markov Models In this book we will explore why a Memoryless predictive model can be so advantageous to the modern tech industry We will take a look at fundamental mathematics and high level concepts alike extending our understanding of the subject beyond the simple Markov Model You

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