
Semi-Markov Models and Applications

Jacques Janssen and Nikolaos Limnios (Eds.)

Kluwer Academic Publishers

Semi Markov Models And Applications

Yuriy E Obzherin, Elena G Boyko



Semi Markov Models And Applications:

Semi-Markov Models Jacques Janssen, 2013-11-11 This book is the result of the International Symposium on Semi Markov Processes and their Applications held on June 4-7 1984 at the Universite Libre de Bruxelles with the help of the FNRS Fonds National de la Recherche Scientifique Belgium the Ministere de l'Education Nationale Belgium and the Bernoulli Society for Mathematical Statistics and Probability This international meeting was planned to make a state of the art for the area of semi Markov theory and its applications to bring together researchers in this field and to create a platform for open and thorough discussion Main themes of the Symposium are the first ten sections of this book The last section presented here gives an exhaustive bibliography on semi Markov processes for the last ten years Papers selected for this book are all invited papers and in addition some contributed papers retained after strong refereeing Sections are I Markov additive processes and regenerative systems II Semi Markov decision processes III Algorithmic and computer oriented approach IV Semi Markov models in economy and insurance V Semi Markov processes and reliability theory VI Simulation and statistics for semi Markov processes VII Semi Markov processes and queueing theory VIII Branching IX Applications in medicine X Applications in other fields v PREFACE XI A second bibliography on semi Markov processes It is interesting to quote that sections IV to X represent a good sample of the main applications of semi Markov processes i.e.

Semi-Markov Models and Applications Jacques Janssen, Nikolaos Limnios, 2013-12-01 This book presents a selection of papers presented to the Second International Symposium on Semi Markov Models Theory and Applications held in Compiègne France in December 1998 This international meeting had the same aim as the first one held in Brussels in 1984 to make fourteen years later the state of the art in the field of semi Markov processes and their applications bring together researchers in this field and also to stimulate fruitful discussions The set of the subjects of the papers presented in Compiègne has a lot of similarities with the preceding Symposium this shows that the main fields of semi Markov processes are now well established particularly for basic applications in Reliability and Maintenance Biomedicine Queueing Control processes and production A growing field is the one of insurance and finance but this is not really a surprising fact as the problem of pricing derivative products represents now a crucial problem in economics and finance For example stochastic models can be applied to financial and insurance models as we have to evaluate the uncertainty of the future market behavior in order firstly to propose different measures for important risks such as the interest risk the risk of default or the risk of catastrophe and secondly to describe how to act in order to optimize the situation in time Recently the concept of VaR Value at Risk was discovered in portfolio theory enlarging so the fundamental model of Markowitz

Hidden Semi-Markov Models Shun-Zheng Yu, 2015-10-22 Hidden semi Markov models HSMMs are among the most important models in the area of artificial intelligence machine learning Since the first HSMM was introduced in 1980 for machine recognition of speech three other HSMMs have been proposed with various definitions of duration and observation distributions Those models have different expressions

algorithms computational complexities and applicable areas without explicitly interchangeable forms Hidden Semi Markov Models Theory Algorithms and Applications provides a unified and foundational approach to HSMMs including various HSMMs such as the explicit duration variable transition and residential time of HSMMs inference and estimation algorithms implementation methods and application instances Learn new developments and state of the art emerging topics as they relate to HSMMs presented with examples drawn from medicine engineering and computer science Discusses the latest developments and emerging topics in the field of HSMMs Includes a description of applications in various areas including Human Activity Recognition Handwriting Recognition Network Traffic Characterization and Anomaly Detection and Functional MRI Brain Mapping Shows how to master the basic techniques needed for using HSMMs and how to apply them

Semi-Markov Chains and Hidden Semi-Markov Models toward Applications Vlad Stefan Barbu, Nikolaos Limnios, 2009-01-07 Here is a work that adds much to the sum of our knowledge in a key area of science today It is concerned with the estimation of discrete time semi Markov and hidden semi Markov processes A unique feature of the book is the use of discrete time especially useful in some specific applications where the time scale is intrinsically discrete The models presented in the book are specifically adapted to reliability studies and DNA analysis The book is mainly intended for applied probabilists and statisticians interested in semi Markov chains theory reliability and DNA analysis and for theoretical oriented reliability and bioinformatics engineers

Introduction to Hidden Semi-Markov Models John Van der Hoek, Robert J. Elliott, 2018 Markov chains and hidden Markov chains have applications in many areas of engineering and genomics This book provides a basic introduction to the subject by first developing the theory of Markov processes in an elementary discrete time finite state framework suitable for senior undergraduates and graduates The authors then introduce semi Markov chains and hidden semi Markov chains before developing related estimation and filtering results Genomics applications are modelled by discrete observations of these hidden semi Markov chains This book contains new results and previously unpublished material not available elsewhere The approach is rigorous and focused on applications

Semi-Markov Processes Franciszek Grabski, 2014-09-25 Semi Markov Processes Applications in System Reliability and Maintenance is a modern view of discrete state space and continuous time semi Markov processes and their applications in reliability and maintenance The book explains how to construct semi Markov models and discusses the different reliability parameters and characteristics that can be obtained from those models The book is a useful resource for mathematicians engineering practitioners and PhD and MSc students who want to understand the basic concepts and results of semi Markov process theory Clearly defines the properties and theorems from discrete state Semi Markov Process SMP theory Describes the method behind constructing Semi Markov SM models and SM decision models in the field of reliability and maintenance Provides numerous individual versions of SM models including the most recent and their impact on system reliability and maintenance

Segmental Semi-Markov Models and Applications to Sequence Analysis Xian-ping Ge, 2002

Introduction to Hidden Semi-Markov Models John van der Hoek, Robert J. Elliott, 2018-02-08 Markov chains and hidden Markov chains have applications in many areas of engineering and genomics This book provides a basic introduction to the subject by first developing the theory of Markov processes in an elementary discrete time finite state framework suitable for senior undergraduates and graduates The authors then introduce semi Markov chains and hidden semi Markov chains before developing related estimation and filtering results Genomics applications are modelled by discrete observations of these hidden semi Markov chains This book contains new results and previously unpublished material not available elsewhere The approach is rigorous and focused on applications Applied Semi-Markov Processes Jacques

Janssen, Raimondo Manca, 2006-02-08 Aims to give to the reader the tools necessary to apply semi Markov processes in real life problems The book is self contained and starting from a low level of probability concepts gradually brings the reader to a deep knowledge of semi Markov processes Presents homogeneous and non homogeneous semi Markov processes as well as Markov and semi Markov rewards processes The concepts are fundamental for many applications but they are not as thoroughly presented in other books on the subject as they are here **Introduction to Hidden Semi-Markov Models**

John van der Hoek, Robert J. Elliott, 2018-02-08 Markov chains and hidden Markov chains have applications in many areas of engineering and genomics This book provides a basic introduction to the subject by first developing the theory of Markov processes in an elementary discrete time finite state framework suitable for senior undergraduates and graduates The authors then introduce semi Markov chains and hidden semi Markov chains before developing related estimation and filtering results Genomics applications are modelled by discrete observations of these hidden semi Markov chains This book contains new results and previously unpublished material not available elsewhere The approach is rigorous and focused on applications **Semi-Markov Risk Models for Finance, Insurance and Reliability** Jacques Janssen, Raimondo

Manca, 2007-05-15 This book aims to give a complete and self contained presentation of semi Markov models with finitely many states in view of solving real life problems of risk management in three main fields Finance Insurance and Reliability providing a useful complement to our first book Janssen and Manca 2006 which gives a theoretical presentation of semi Markov theory However to help assure the book is self contained the first three chapters provide a summary of the basic tools on semi Markov theory that the reader will need to understand our presentation For more details we refer the reader to our first book Janssen and Manca 2006 whose notations definitions and results have been used in these four first chapters Nowadays the potential for theoretical models to be used on real life problems is severely limited if there are no good computer programs to process the relevant data We therefore systematically propose the basic algorithms so that effective numerical results can be obtained Another important feature of this book is its presentation of both homogeneous and non homogeneous models It is well known that the fundamental structure of many real life problems is non homogeneous in time and the application of homogeneous models to such problems gives in the best case only approximated results or in the worst

case nonsense results **Semi-Markov Migration Models for Credit Risk** Guglielmo D'Amico, Giuseppe Di Biase, Jacques Janssen, Raimondo Manca, 2017-05-24 Credit risk is one of the most important contemporary problems for banks and insurance companies Indeed for banks more than forty percent of the equities are necessary to cover this risk Though this problem is studied by large rating agencies with substantial economic social and financial tools building stochastic models is nevertheless necessary to complete this descriptive orientation This book presents a complete presentation of such a category of models using homogeneous and non homogeneous semi Markov processes developed by the authors in several recent papers This approach provides a good method of evaluating the default risk and the classical VaR indicators used for Solvency II and Basel III governance rules This book is the first to present a complete semi Markov treatment of credit risk while also insisting on the practical use of the models presented here including numerical aspects so that this book is not only useful for scientific research but also to managers working in this field for banks insurance companies pension funds and other financial institutions **Nonlinearly Perturbed Semi-Markov Processes** Dmitrii Silvestrov, Sergei Silvestrov, 2017-09-06 The book presents new methods of asymptotic analysis for nonlinearly perturbed semi Markov processes with a finite phase space These methods are based on special time space screening procedures for sequential phase space reduction of semi Markov processes combined with the systematical use of operational calculus for Laurent asymptotic expansions Effective recurrent algorithms are composed for getting asymptotic expansions without and with explicit upper bounds for remainders for power moments of hitting times stationary and conditional quasi stationary distributions for nonlinearly perturbed semi Markov processes These results are illustrated by asymptotic expansions for birth death type semi Markov processes which play an important role in various applications The book will be a useful contribution to the continuing intensive studies in the area It is an essential reference for theoretical and applied researchers in the field of stochastic processes and their applications that will contribute to continuing extensive studies in the area and remain relevant for years to come *Semi-Markov Models* Yuriy E Obzherin, Elena G Boyko, 2015-02-03 Featuring previously unpublished results Semi Markov Models Control of Restorable Systems with Latent Failures describes valuable methodology which can be used by readers to build mathematical models of a wide class of systems for various applications In particular this information can be applied to build models of reliability queuing systems and technical control Beginning with a brief introduction to the area the book covers semi Markov models for different control strategies in one component systems defining their stationary characteristics of reliability and efficiency and utilizing the method of asymptotic phase enlargement developed by V S Korolyuk and A F Turbin The work then explores semi Markov models of latent failures control in two component systems Building on these results solutions are provided for the problems of optimal periodicity of control execution Finally the book presents a comparative analysis of analytical and imitational modeling of some one and two component systems before discussing practical applications of the results Reflects the possibility and effectiveness of this

method of modeling systems such as phase merging algorithms developed by V S Korolyuk A F Turbin A V Swishchuk little covered elsewhere Focuses on possible applications to engineering control systems *Perturbed Semi-Markov Type Processes I* Dmitrii Silvestrov, 2022-03-25 This book is the first volume of a two volume monograph devoted to the study of limit and ergodic theorems for regularly and singularly perturbed Markov chains semi Markov processes and multi alternating regenerative processes with semi Markov modulation The first volume presents necessary and sufficient conditions for weak convergence for first rare event times and convergence in the topology J for first rare event processes defined on regularly perturbed finite Markov chains and semi Markov processes The text introduces new asymptotic recurrent algorithms of phase space reduction It also addresses both effective conditions of weak convergence for distributions of hitting times as well as convergence of expectations of hitting times for regularly and singularly perturbed finite Markov chains and semi Markov processes The book also contains a comprehensive bibliography of major works in the field It provides an effective reference for both graduate students as well as theoretical and applied researchers studying stochastic processes and their applications **Handbook of Performability Engineering** Krishna B. Misra, 2008-08-24 Dependability and cost effectiveness are primarily seen as instruments for conducting international trade in the free market environment These factors cannot be considered in isolation of each other This handbook considers all aspects of performability engineering The book provides a holistic view of the entire life cycle of activities of the product along with the associated cost of environmental preservation at each stage while maximizing the performance **Engineering Mathematics II** Sergei Silvestrov, Milica Rančić, 2017-02-10 This book highlights the latest advances in engineering mathematics with a main focus on the mathematical models structures concepts problems and computational methods and algorithms most relevant for applications in modern technologies and engineering It addresses mathematical methods of algebra applied matrix analysis operator analysis probability theory and stochastic processes geometry and computational methods in network analysis data classification ranking and optimisation The individual chapters cover both theory and applications and include a wealth of figures schemes algorithms tables and results of data analysis and simulation Presenting new methods and results reviews of cutting edge research and open problems for future research they equip readers to develop new mathematical methods and concepts of their own and to further compare and analyse the methods and results discussed The book consists of contributed chapters covering research developed as a result of a focused international seminar series on mathematics and applied mathematics and a series of three focused international research workshops on engineering mathematics organised by the Research Environment in Mathematics and Applied Mathematics at Mälardalen University from autumn 2014 to autumn 2015 the International Workshop on Engineering Mathematics for Electromagnetics and Health Technology the International Workshop on Engineering Mathematics Algebra Analysis and Electromagnetics and the 1st Swedish Estonian International Workshop on Engineering Mathematics Algebra Analysis and Applications It serves as

a source of inspiration for a broad spectrum of researchers and research students in applied mathematics as well as in the areas of applications of mathematics considered in the book Shock and Damage Models in Reliability Theory Toshio Nakagawa, 2007-02-01 This is the first monograph which presents shock and damage models in reliability from introduction to application Stochastic processes are introduced before current developments are surveyed The practical applications of shock and damage models are demonstrated using case studies The author is a leading researcher in this field with more than thirty years of experience Reliability engineers and managers of maintenance work will find this book a broad reference

Quasi-Stationary Phenomena in Nonlinearly Perturbed Stochastic Systems Mats Gyllenberg, Dmitrii S. Silvestrov, 2008-10-31 The book is devoted to studies of quasi stationary phenomena in nonlinearly perturbed stochastic systems New methods of asymptotic analysis for nonlinearly perturbed stochastic processes based on new types of asymptotic expansions for perturbed renewal equation and recurrence algorithms for construction of asymptotic expansions for Markov type processes with absorption are presented Asymptotic expansions are given in mixed ergodic for processes and large deviation theorems for absorption times for nonlinearly perturbed regenerative processes semi Markov processes and Markov chains Applications to analysis of quasi stationary phenomena in nonlinearly perturbed queueing systems population dynamics and epidemic models and for risk processes are presented The book also contains an extended bibliography of works in the area It is an essential reference for theoretical and applied researchers in the field of stochastic processes and their applications and may be also useful for doctoral and advanced undergraduate students **Recent**

Advances in Reliability Theory N. Limnios, M. Nikulin, 2012-12-06 Conceiving reliable systems is a strategic issue for any industrial society Hence reliability has become a discipline at the beginning of the Second World War In fact reliability is a field of research common to mathematics operational research informatics graph theory physics and so forth We are concerned here with the mathematical side of reliability of which probability statistics and more specially stochastic processes theory constitute the natural basis US army during the war and later in the US Problems encountered by the and Soviet space programs have led to an awareness of the need for reliability or more generally for dependability a general term covering reliability availability security maintainability etc of the systems The paper by W Weibull of 1938 on the strength of materials leading to the distribution that later took his name and the paper by B Epstein and M Sobel of 1951 initiating the use of the exponential distribution as the basic and now most used model for reliability are the founding papers of the field At this time the systems were merely seen as black boxes During the 1960s they began to be considered as the result of the interaction of their elements Appropriate methods were then developed from Shannon's work to the beautiful theory of coherent systems initiated by Z W Birnbaum J D

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