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Point Processes and Product Densities

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S K Srinivasan
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Point Processes And Product Densities

Donald L. Snyder, Michael I. Miller



Point Processes And Product Densities:

Point Processes and Product Densities S. Kidambi Srinivasan,A. Vijayakumar,2003 Point processes are random processes that are concerned with point events occurring in space or time A powerful method of analyzing them is through a sequence of correlation functions called product densities introduced by Alladi Ramakrishnan In view of their wide applicability there is a spectacular development of the theory and applications of these processes in the recent past Most of the books and monographs in this area are not easily comprehensible to non mathematically oriented readers because of their abstraction and generality In addition the best way to learn a subject is to study the original papers Hence it is considered worthwhile to reprint some of the most significant contributions of Alladi Ramakrishnan and his associates to serve as a ready reference volume While a good working knowledge of elementary probability theory is a must some acquaintance with Markov processes will be helpful to read these papers This volume will be useful to young researchers working in the broad area of stochastic point processes and their applications and in particular indispensable to those working in stochastic modeling with special reference to problems of queues inventory reliability neural network etc It will also be useful to those working in the conventional areas of statistical physics fluctuating phenomena and communication theory and control where point processes are extensively employed

Stochastic Point Processes S. Kidambi Srinivasan,A. Vijayakumar,2003 Stochastic Point Processes are interesting from many points of view From an abstract point of view point process is a simple version of random measure these processes have acquired importance mainly due their viability in modeling a variety of phenomena spanning physical biological economic and engineering sciences This volume with contributions from leading probabilists contains besides surveys on the state of art of the theory papers dealing with problems of queues inventory reliability and population evolution There are also papers dealing with practical aspects like statistical inference and nonlinear filtering The book will be of interest to a wide spectrum of people including those working in the area of operations research signal processing electrical communications control and neural network

An Introduction to the Theory of Point Processes Daryl J. Daley,David Vere-Jones,2013-03-14 Stochastic point processes are sets of randomly located points in time on the plane or in some general space This book provides a general introduction to the theory starting with simple examples and an historical overview and proceeding to the general theory It thoroughly covers recent work in a broad historical perspective in an attempt to provide a wider audience with insights into recent theoretical developments It contains numerous examples and exercises This book aims to bridge the gap between informal treatments concerned with applications and highly abstract theoretical treatments

An Introduction to the Theory of Point Processes D.J. Daley,D. Vere-Jones,2006-04-10 Point processes and random measures find wide applicability in telecommunications earthquakes image analysis spatial point patterns and stereology to name but a few areas The authors have made a major reshaping of their work in their first edition of 1988 and now present their Introduction to the Theory of Point Processes in two volumes with sub titles Elementary

Theory and Models and General Theory and Structure Volume One contains the introductory chapters from the first edition together with an informal treatment of some of the later material intended to make it more accessible to readers primarily interested in models and applications The main new material in this volume relates to marked point processes and to processes evolving in time where the conditional intensity methodology provides a basis for model building inference and prediction There are abundant examples whose purpose is both didactic and to illustrate further applications of the ideas and models that are the main substance of the text Stochastic Geometry, Spatial Statistics and Random Fields Evgeny Spodarev,2013-02-11 This volume provides a modern introduction to stochastic geometry random fields and spatial statistics at a post graduate level It is focused on asymptotic methods in geometric probability including weak and strong limit theorems for random spatial structures point processes sets graphs fields with applications to statistics Written as a contributed volume of lecture notes it will be useful not only for students but also for lecturers and researchers interested in geometric probability and related subjects **Traffic Systems Reviews and Abstracts** United States. Federal Highway Administration,1971 **Stochastic Geometry and Its Applications** Sung Nok Chiu,Dietrich Stoyan,Wilfrid S. Kendall,Joseph Mecke,2013-06-27 An extensive update to a classic text Stochastic geometry and spatial statistics play a fundamental role in many modern branches of physics materials sciences engineering biology and environmental sciences They offer successful models for the description of random two and three dimensional micro and macro structures and statistical methods for their analysis The previous edition of this book has served as the key reference in its field for over 18 years and is regarded as the best treatment of the subject of stochastic geometry both as a subject with vital applications to spatial statistics and as a very interesting field of mathematics in its own right This edition Presents a wealth of models for spatial patterns and related statistical methods Provides a great survey of the modern theory of random tessellations including many new models that became tractable only in the last few years Includes new sections on random networks and random graphs to review the recent ever growing interest in these areas Provides an excellent introduction to theory and modelling of point processes which covers some very latest developments Illustrate the forefront theory of random sets with many applications Adds new results to the discussion of fibre and surface processes Offers an updated collection of useful stereological methods Includes 700 new references Is written in an accessible style enabling non mathematicians to benefit from this book Provides a companion website hosting information on recent developments in the field www.wiley.com/go/cskm Stochastic Geometry and its Applications is ideally suited for researchers in physics materials science biology and ecological sciences as well as mathematicians and statisticians It should also serve as a valuable introduction to the subject for students of mathematics and statistics *Point Processes* D.R. Cox,Valerie Isham,2018-12-19 There has been much recent research on the theory of point processes i e on random systems consisting of point events occurring in space or time Applications range from emissions from a radioactive source occurrences of accidents or machine breakdowns or of electrical

impluses along nerve fibres to repetitive point events in an individual's medical or social history. Sometimes the point events occur in space rather than time and the application here ranges from statistical physics to geography. The object of this book is to develop the applied mathematics of point processes at a level which will make the ideas accessible both to the research worker and the postgraduate student in probability and statistics and also to the mathematically inclined individual in another field interested in using ideas and results. A thorough knowledge of the key notions of elementary probability theory is required to understand the book but specialised pure mathematical considerations have been avoided.

Modeling in the Neurosciences G. N. Reeke, R.R. Poznanski, K. A. Lindsay, J.R. Rosenberg, O. Sporns, 2005-03-29 Computational models of neural networks have proven insufficient to accurately model brain function mainly as a result of simplifications that ignore the physical reality of neuronal structure in favor of mathematically tractable algorithms and rules. Even the more biologically based integrate and fire and compartmental styles of modeling suffice.

Stochastic Processes: Theory and Methods D N Shanbhag, C. Yampudi Radhakrishna Rao, 2001 This volume in the series contains chapters on areas such as Pareto processes, branching processes, inference in stochastic processes, Poisson approximation, Levy processes and iterated random maps and some classes of Markov processes. Other chapters cover random walk and fluctuation theory, a semigroup representation and asymptotic behavior of certain statistics of the Fisher-Wright-Moran coalescent, continuous-time ARMA processes, record sequence and their applications, stochastic networks with product form equilibrium and stochastic processes in insurance and finance. Other subjects include renewal theory, stochastic processes in reliability, supports of stochastic processes of multiplicity, one Markov chain, diffusion processes and Ito's stochastic calculus and its applications. c Book News Inc

Random Patterns and Structures in Spatial Data Radu Stoica, 2025-04-02 The book presents a general mathematical framework able to detect and to characterise from a morphological and statistical perspective patterns hidden in spatial data. The mathematical tools employed are Gibbs Markov processes, mainly marked point processes with interaction, which permits us to reduce the complexity of the pattern. It presents the framework step by step in three major parts: modeling, simulation and inference. Each of these parts contains a theoretical development followed by applications and examples. Features: Presents mathematical foundations for tackling pattern detection and characterisation in spatial data using marked Gibbs point processes with interactions. Includes application examples from cosmology, environmental sciences, geology and social networks. Presents theoretical and practical details for the presented algorithms in order to be correctly and efficiently used. Provides access to C and R code to encourage the reader to experiment and to develop new ideas. Includes references and pointers to mathematical and applied literature to encourage further study. *Random Patterns and Structures in Spatial Data* is primarily aimed at researchers in mathematics, statistics and the above-mentioned application domains. It is accessible for advanced undergraduate and graduate students and thus could be used to teach a course. It will be of interest to any scientific researcher interested in formulating a mathematical answer to the always challenging question: what is the pattern?

hidden in the data Stochastic Geometry for Wireless Networks Martin Haenggi, 2013 Analyse wireless network performance and improve design choices for future architectures and protocols with this rigorous introduction to stochastic geometry *Statistical Analysis and Modelling of Spatial Point Patterns* Dr. Janine Illian, Prof. Antti Penttinen, Dr. Helga Stoyan, Dr. Dietrich Stoyan, 2008-04-15 Spatial point processes are mathematical models used to describe and analyse the geometrical structure of patterns formed by objects that are irregularly or randomly distributed in one two or three dimensional space Examples include locations of trees in a forest blood particles on a glass plate galaxies in the universe and particle centres in samples of material Numerous aspects of the nature of a specific spatial point pattern may be described using the appropriate statistical methods Statistical Analysis and Modelling of Spatial Point Patterns provides a practical guide to the use of these specialised methods The application oriented approach helps demonstrate the benefits of this increasingly popular branch of statistics to a broad audience The book Provides an introduction to spatial point patterns for researchers across numerous areas of application Adopts an extremely accessible style allowing the non statistician complete understanding Describes the process of extracting knowledge from the data emphasising the marked point process Demonstrates the analysis of complex datasets using applied examples from areas including biology forestry and materials science Features a supplementary website containing example datasets Statistical Analysis and Modelling of Spatial Point Patterns is ideally suited for researchers in the many areas of application including environmental statistics ecology physics materials science geostatistics and biology It is also suitable for students of statistics mathematics computer science biology and geoinformatics **Afferent Control of Posture and Locomotion** , 1990-02-28 Afferent Control of Posture and Locomotion *Random Point Processes in Time and Space* Donald L. Snyder, Michael I. Miller, 2012-12-06 This book is a revision of *Random Point Processes* written by D L Snyder and published by John Wiley and Sons in 1975 More emphasis is given to point processes on multidimensional spaces especially to processes in two dimensions This reflects the tremendous increase that has taken place in the use of point process models for the description of data from which images of objects of interest are formed in a wide variety of scientific and engineering disciplines A new chapter Translated Poisson Processes has been added and several of the chapters of the first edition have been modified to accommodate this new material Some parts of the first edition have been deleted to make room Chapter 7 of the first edition which was about general marked point processes has been eliminated but much of the material appears elsewhere in the new text With some reluctance we concluded it necessary to eliminate the topic of hypothesis testing for point process models Much of the material of the first edition was motivated by the use of point process models in applications at the Biomedical Computer Laboratory of Washington University as is evident from the following excerpt from the Preface to the first edition It was Jerome R Cox Jr founder and 1974 director of Washington University's Biomedical Computer Laboratory who first interested me D L S Handbook of Spatial Point-Pattern Analysis in Ecology Thorsten Wiegand, Kirk A. Moloney, 2013-12-20 This handbook

shows how the techniques of point pattern analysis are useful for tackling ecological problems. Within an ecological framework it guides readers through a variety of methods for different data types and aids in the interpretation of the results obtained by point pattern analysis. Along with the techniques the book provides a comprehensive selection of real world examples. Most of the examples are analyzed using the authors software package Programita. The software and a manual are available online.

Stochastic Processes and their Applications M.J. Beckmann, M.N. Gopalan, R. Subramanian, 2012-12-06. A volume of this nature containing a collection of papers has been brought out to honour a gentleman, a friend and a colleague whose work has to a large extent advanced and popularized the use of stochastic point processes. Professor Srinivasan celebrated his sixtieth birthday on December 16 1990 and will be retiring as Professor of Applied Mathematics from the Indian Institute of Technology Madras on June 30 1991. In view of his outstanding contributions to the theory and applications of stochastic processes over a time span of thirty years it seemed appropriate not to let his birthday and retirement pass unnoticed. A symposium in his honour and the publication of the proceedings appeared to us to be the most natural and suitable to mark the occasion. The Indian Society for Probability and Statistics volunteered to organize the Symposium as part of their XII Annual conference in Bombay. We requested a number of long time friends, colleagues and former students of Professor Srinivasan to contribute a paper preferably in the area of stochastic processes and their applications. The positive response and the enthusiastic cooperation of these distinguished scientists have resulted in the present collection. The contributions to this volume are divided into four parts: Stochastic Theory 2 articles, Physics 6 articles, Biology 4 articles and Operations Research 12 articles. In addition the keynote address delivered by Professor Srinivasan in the Symposium is also included.

Stochastic Geometry Analysis of Cellular Networks Bartłomiej Błaszczyszyn, Martin Haenggi, Paul Keeler, Sayandev Mukherjee, 2018-04-19. Achieve faster and more efficient network design and optimization with this comprehensive guide. Some of the most prominent researchers in the field explain the very latest analytic techniques and results from stochastic geometry for modelling the signal to interference plus noise ratio SINR distribution in heterogeneous cellular networks. This book will help readers to understand the effects of combining different system deployment parameters on key performance indicators such as coverage and capacity enabling the efficient allocation of simulation resources. In addition to covering results for network models based on the Poisson point process this book presents recent results for when non-Poisson base station configurations appear. Poisson due to random propagation effects such as fading and shadowing as well as non-Poisson models for base station configurations with a focus on determinantal point processes and tractable approximation methods. Theoretical results are illustrated with practical Long Term Evolution (LTE) applications and compared with real world deployment results.

Modern Techniques in Neuroscience Research Uwe Windhorst, Hakan Johansson, 2012-12-06. Nothing tends so much to the advancement of knowledge as the application of a new instrument. Sir Humphry Davy 1778-1829. Neuroscience has become a rapidly expanding endeavor that relies on a number of other sciences.

such as mathematics physics chemistry engineering computer science general biology and medicine genetics etc In fact many of its recent successes result from the application of ideas and methods borrowed from these fields Insofar it is a true interdisciplinary undertaking This convergence of influences accounts for part of its enormous attractiveness and fascination to students and researchers from diverse walks of life or science for that matter It is probably fair to say that a great number of neuroscience's most creative and productive proponents have been lured into this field not only by the excitement about the possibility to unmask the secrets of the human mind but also by the appeal of a vast unknown land needing cultivation and tools to cultivate it Danger may arise for any science if it is dominated by methods and techniques of investigation rather than by problems to be solved and concepts to be developed This might concentrate efforts onto the technically feasible and doable rather than on the real issues But on the other hand especially the young and growing sciences are heavily dependent on the development and application of methods often even before a problem relying on these methods may become apparent

Determining high-risk zones by using spatial point process methodology Monia Mahling, 2013-07-15

Methoden zur Konstruktion von Risikozonen die verwendet werden können wenn ein räumliches Punktmuster unvollständig beobachtet wurde werden am Beispiel von Blindgängern auf Bundesliegenschaften in Deutschland eingeführt und evaluiert Blindgänger aus dem Zweiten Weltkrieg stellen in Deutschland ein schwerwiegendes Problem dar Es ist daher wünschenswert Risikozonen nach Blindgängern abzusuchen Da dies jedoch hohe Kosten verursacht beschränkt sich die Suche normalerweise auf sorgfältig ausgewählte Gebiete Falls für das fragliche Gebiet geeignete Luftbilder existieren können zur Bestimmung solcher Zonen statistische Methoden angewandt werden indem das Muster der detonierten Bomben als Realisation eines räumlichen Punktprozesses betrachtet wird Die in dieser Arbeit analysierten Muster wurden von der Oberfinanzdirektion Niedersachsen zur Verfügung gestellt die die Kampfmittelräumung auf deutschen Bundesliegenschaften unterstützt Sie wurden aus Luftbildern gewonnen die die Alliierten während und nach dem Zweiten Weltkrieg aufgenommen haben Das primäre Ziel besteht darin möglichst kleine Regionen zu finden die möglichst viele Blindgänger enthalten

Methods for constructing high risk zones which can be used in situations where a spatial point pattern has been observed incompletely are introduced and evaluated with regard to unexploded bombs in federal properties in Germany Unexploded bombs from the Second World War represent a serious problem in Germany It is desirable to search high risk zones for unexploded bombs but this causes high costs so the search is usually restricted to carefully selected areas If suitable aerial pictures of the area in question exist statistical methods can be used to determine such zones by considering patterns of exploded bombs as realisations of spatial point processes The patterns analysed in this thesis were provided by Oberfinanzdirektion Niedersachsen which supports the removal of unexploded ordnance in federal properties in Germany They were derived from aerial pictures taken by the Allies during and after World War II The main task consists of finding as small regions as possible containing as many unexploded bombs as possible

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