

ON ESTIMATION OF POISSON INTENSITY FUNCTIONS

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Abstract. Under the presence of only one realization, we consider a computationally simple algorithm for estimating the intensity function of a Poisson process with exponential quadratic and cyclic of fixed frequency trends. We argue that the algorithm can successfully be used to estimate any Poisson intensity function provided that it has a parametric form.

Key words and phrases: Poisson process, point process, linear Poisson process, modulated Poisson process.

1. Introduction

Let X be a Poisson point process on the Borel measurable space $(\mathcal{R}^d, \mathcal{B}^d)$, $d \in \mathcal{N}$, with unknown locally integrable intensity function

$$(1.1) \quad \lambda \in L_{loc}^1(\mathcal{R}^d),$$

that is, λ is an integrable function on every compact subset of \mathcal{R}^d . For mathematical foundations of point processes theory we refer, for example, to Daley and Vere-Jones (1972, 1988), Ripley (1976), Kallenberg (1983), Kingman (1993), Reiss (1993).

Motivated by Helmers (1995), we assume throughout that only one realization of the process X is available. Furthermore, we assume that X is observed only in a bounded Borel set (called window) $W \subset \mathcal{R}^d$ that depends on a parameter N and expands when $N \rightarrow \infty$. We also assume throughout that

$$(1.2) \quad \int_{\mathcal{R}^d} \lambda(x) dx (= EX(\mathcal{R}^d)) = \infty$$

(cf., for example, Subsection 6.3 on pp. 136–137 of Rathbun and Cressie (1994) for a discussion concerning the necessity of assumption (1.2) in this context).

Intensity Estimation For Poisson Processes

VM Jensen



Intensity Estimation For Poisson Processes:

Applied Spatial Statistics for Public Health Data Lance A. Waller, Carol A. Gotway, 2004-07-29 While mapped data provide a common ground for discussions between the public the media regulatory agencies and public health researchers the analysis of spatially referenced data has experienced a phenomenal growth over the last two decades thanks in part to the development of geographical information systems GISs This is the first thorough overview to integrate spatial statistics with data management and the display capabilities of GIS It describes methods for assessing the likelihood of observed patterns and quantifying the link between exposures and outcomes in spatially correlated data This introductory text is designed to serve as both an introduction for the novice and a reference for practitioners in the field Requires only minimal background in public health and only some knowledge of statistics through multiple regression Touches upon some advanced topics such as random effects hierarchical models and spatial point processes but does not require prior exposure Includes lavish use of figures illustrations throughout the volume as well as analyses of several data sets in the form of data breaks Exercises based on data analyses reinforce concepts

Estimation in Poisson Processes Pratap Narain Misra, 1973

An Estimation Problem with Poisson Processes STANFORD UNIV CA DEPT OF STATISTICS., Alan E. Gelfand, 1982 This paper considers an estimation problem involving n independent Poisson processes such that the i th process has intensity function $\lambda_i(t) = \lambda_i(t - \alpha_i)$ It is of interest to estimate $\lambda_i(t)$ Two estimation procedures are developed one using the exact arrival times of observations the second using categorical arrival times of observations Two specific instances of $\lambda_i(t)$ an exponential and a bilinear form are investigated further An example applying the methodology to the active life of a judicial opinion is described Author

Multiscale Modeling and Estimation of

Poisson Processes with Applications to Emission Computed Tomography Klaus Edmond Timmermann, 2000

Statistical Inference for Spatial Poisson Processes Yu A. Kutoyants, 2012-12-06 This work is devoted to several problems of parametric mainly and nonparametric estimation through the observation of Poisson processes defined on general spaces Poisson processes are quite popular in applied research and therefore they attract the attention of many statisticians There are a lot of good books on point processes and many of them contain chapters devoted to statistical inference for general and particular models of processes There are even chapters on statistical estimation problems for inhomogeneous Poisson processes in asymptotic statements Nevertheless it seems that the asymptotic theory of estimation for nonlinear models of Poisson processes needs some development Here nonlinear means the models of inhomogeneous Poisson processes with intensity function nonlinearly depending on unknown parameters In such situations the estimators usually cannot be written in exact form and are given as solutions of some equations However the models can be quite fruitful in engineering problems and the existing computing algorithms are sufficiently powerful to calculate these estimators Therefore the properties of estimators can be interesting too

Introduction to the Statistics of Poisson Processes and Applications Yury A.

Kutoyants,2023-09-04 This book covers an extensive class of models involving inhomogeneous Poisson processes and deals with their identification i e the solution of certain estimation or hypothesis testing problems based on the given dataset These processes are mathematically easy to handle and appear in numerous disciplines including astronomy biology ecology geology seismology medicine physics statistical mechanics economics image processing forestry telecommunications insurance and finance reliability queuing theory wireless networks and localisation of sources Beginning with the definitions and properties of some fundamental notions stochastic integral likelihood ratio limit theorems etc the book goes on to analyse a wide class of estimators for regular and singular statistical models Special attention is paid to problems of change point type and in particular cusp type change point models then the focus turns to the asymptotically efficient nonparametric estimation of the mean function the intensity function and of some functionals Traditional hypothesis testing including some goodness of fit tests is also discussed The theory is then applied to three classes of problems misspecification in regularity MiR corresponding to situations where the chosen change point model and that of the real data have different regularity optical communication with phase and frequency modulation of periodic intensity functions and localization of a radioactive Poisson source on the plane using K detectors Each chapter concludes with a series of problems and state of the art references are provided making the book invaluable to researchers and students working in areas which actively use inhomogeneous Poisson processes Spatial Point Process Modelling and Its Applications Adrian Baddeley,2004 Este libro de proceedings se edita para ponerlo a disposici n de los asistentes a la Internacional Conference on Spatial Pont Process Modelling and its Applications SPPA realizada en Benic ssim en abril de 2004 *Stationary Stochastic Processes for Scientists and Engineers* Georg Lindgren,Holger Rootzen,Maria Sandsten,2013-10-11 Suitable for a one semester course this text teaches students how to use stochastic processes efficiently Carefully balancing mathematical rigor and ease of exposition the book provides students with a sufficient understanding of the theory and a practical appreciation of how it is used in real life situations Special emphasis is on the interpretation of various statistical models and concepts as well as the types of questions statistical analysis can answer To enable hands on practice MATLAB code is available online Estimation of the Intensity of a Filtered Poisson Process and Its Application to Acoustic Assessment of Marine Organisms John E. Ehrenberg,1973 *Asymptotics* Eric Alexander Cator,2007 Modern Statistics for Modern Biology SUSAN. HUBER HOLMES (WOLFGANG.),Wolfgang Huber,2018 **Consistent Estimation of the Intensity Function of a Cyclic Poisson Process** Roelof Helmers,I Wayan Mangku,Ričardas Zitikis, Centrum voor Wiskunde en Informatica (Amsterdam, Netherlands),1999 Time Delay Estimation for Inhomogeneous Poisson Processes in the Presence of Gaussian Noise Nikolaos Antoniadis,1992 **Estimation of Selected Parameters in Non-Homogeneous Poisson Processes** Douglas E. Huffman,Paul T. Holmes,CLEMSON UNIV S C DEPT OF MATHEMATICAL SCIENCES.,1975 Estimates are found for the intensity function and other related parameters in a non homogeneous Poisson process Asymptotic results are also obtained

Proceedings of the 1998 IEEE International Conference on Acoustics, Speech, and Signal Processing ,1998
Estimation of the Intensity of the Non-homogeneous Poisson Process Lakshmi Nilakantan,1988 **Statistical Estimation for Stochastic Processes** K. Nanthi,1983 *Estimating the Intensity Function of a Nonhomogeneous Poisson Process and a Simulation Study* Iva Lattinger,1999 **Advances in Nondestructive Evaluation** Seung Seok Lee,Dong Jin Yoon,Joon Hyun Lee,Sekyung Lee,2004-08-15 Proceedings of the 11th Asian Pacific Conference on Nondestructive Testing Jeju Island Korea 3 7 November 2003 *Parameter Estimation for Stochastic Processes* Yu. A. Kutoyants,1984

The book delves into Intensity Estimation For Poisson Processes. Intensity Estimation For Poisson Processes is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Intensity Estimation For Poisson Processes, encompassing both the fundamentals and more intricate discussions.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Intensity Estimation For Poisson Processes.

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