

PAVEL V. SHEVCHENKO



Modelling Operational Risk Using Bayesian Inference

 Springer

Modelling Operational Risk Using Bayesian Inference

Andrzej Jankowski



Modelling Operational Risk Using Bayesian Inference:

Modelling Operational Risk Using Bayesian Inference Pavel V. Shevchenko, 2011-01-19 The management of operational risk in the banking industry has undergone explosive changes over the last decade due to substantial changes in the operational environment Globalization deregulation the use of complex financial products and changes in information technology have resulted in exposure to new risks which are very different from market and credit risks In response the Basel Committee on Banking Supervision has developed a new regulatory framework for capital measurement and standards for the banking sector This has formally defined operational risk and introduced corresponding capital requirements Many banks are undertaking quantitative modelling of operational risk using the Loss Distribution Approach LDA based on statistical quantification of the frequency and severity of operational risk losses There are a number of unresolved methodological challenges in the LDA implementation Overall the area of quantitative operational risk is very new and different methods are under hot debate This book is devoted to quantitative issues in LDA In particular the use of Bayesian inference is the main focus Though it is very new in this area the Bayesian approach is well suited for modelling operational risk as it allows for a consistent and convenient statistical framework for quantifying the uncertainties involved It also allows for the combination of expert opinion with historical internal and external data in estimation procedures These are critical especially for low frequency high impact operational risks This book is aimed at practitioners in risk management academic researchers in financial mathematics banking industry regulators and advanced graduate students in the area It is a must read for anyone who works teaches or does research in the area of financial risk

Modelling Operational Risk Using a Bayesian Approach to Extreme Value Theory María Elena Rivera Mancía, 2014 Extreme value theory is concerned with the tail behaviour of probability distributions In recent years it has found many applications in areas as diverse as hydrology actuarial science and finance where complex phenomena must often be modelled from a small number of observations Extreme value theory can be used to assess the risk of rare events either through the block maxima or peaks over threshold method The choice of threshold is both influential and delicate as a balance between the bias and variance of the estimates is required At present this threshold is often chosen arbitrarily either graphically or by setting it as some high quantile of the data Bayesian inference is an alternative to deal with this problem by treating the threshold as a parameter in the model In addition a Bayesian approach allows for the incorporation of internal and external observations in combination with expert opinion thereby providing a natural probabilistic framework to evaluate risk models This thesis presents a Bayesian inference framework for extremes We focus on a model proposed by Behrens et al 2004 where an analysis of extremes is performed using a mixture model that combines a parametric form for the centre and a Generalized Pareto Distribution GPD for the tail of the distribution Our approach accounts for all the information available in making inference about the unknown parameters from both distributions the threshold included A Bayesian analysis is then performed by using expert opinions to

determine the parameters for prior distributions posterior inference is carried out through Markov Chain Monte Carlo methods We apply this methodology to operational risk data to analyze its performance The contributions of this thesis can be outlined as follows Bayesian models have been barely explored in operational risk analysis In Chapter 3 we show how these models can be adapted to operational risk analysis using fraud data collected by different banks between 2007 and 2010 By combining prior information to the data we can estimate the minimum capital requirement and risk measures such as the Value at Risk VaR and the Expected Shortfall ES for each bank The use of expert opinion plays a fundamental role in operational risk modelling However most of time this issue is not addressed properly In Chapter 4 we consider the context of the problem and show how to construct a prior distribution based on measures that experts are familiar with including VaR and ES The purpose is to facilitate prior elicitation and reproduce expert judgement faithfully In Section 4.3 we describe techniques for the combination of expert opinions While this issue has been addressed in other fields it is relatively recent in our context We examine how different expert opinions may influence the posterior distribution and how to build a prior distribution in this case Results are presented on simulated and real data In Chapter 5 we propose several new mixture models with Gamma and Generalized Pareto elements Our models improve upon previous work by Behrens et al 2004 since the loss distribution is either continuous at a fixed quantile or it has continuous first derivative at the blend point We also consider the cases when the scaling is arbitrary and when the density is discontinuous Finally we introduce two nonparametric models The first one is based on the fact that the GPD model can be represented as a Gamma mixture of exponential distributions while the second uses a Dirichlet process prior on the parameters of the GPD model

The Structural Modelling of Operational Risk Via Bayesian Inference Pavel V. Shevchenko, 2014 To meet the Basel II regulatory requirements for the Advanced Measurement Approaches the bank's internal model must include the use of internal data relevant external data scenario analysis and factors reflecting the business environment and internal control systems Quantification of operational risk cannot be based only on historical data but should involve scenario analysis Historical internal operational risk loss data have limited ability to predict future behaviour moreover banks do not have enough internal data to estimate low frequency high impact events adequately Historical external data are difficult to use due to different volumes and other factors In addition internal and external data have a survival bias since typically one does not have data of all collapsed companies The idea of scenario analysis is to estimate frequency and severity of risk events via expert opinions taking into account bank environment factors with reference to events that have occurred or may have occurred in other banks Scenario analysis is forward looking and can reflect changes in the banking environment It is important to not only quantify the operational risk capital but also provide incentives to business units to improve their risk management policies which can be accomplished through scenario analysis By itself scenario analysis is very subjective but combined with loss data it is a powerful tool to estimate operational risk losses Bayesian inference is a statistical technique

well suited for combining expert opinions and historical data In this paper we present examples of the Bayesian inference methods for operational risk quantification

Modelling Operational Risk Using Skew T-copulas and Bayesian Inference Betty Johanna Garzon Roza,2016 *Fundamental Aspects of Operational Risk and Insurance Analytics* Marcelo G. Cruz,Gareth W. Peters,Pavel V. Shevchenko,2015-02-23 A one stop guide for the theories applications and statistical methodologies essential to operational risk Providing a complete overview of operational risk modeling and relevant insurance analytics

Fundamental Aspects of Operational Risk and Insurance Analytics A Handbook of Operational Risk offers a systematic approach that covers the wide range of topics in this area Written by a team of leading experts in the field the handbook presents detailed coverage of the theories applications and models inherent in any discussion of the fundamentals of operational risk with a primary focus on Basel II III regulation modeling dependence estimation of risk models and modeling the data elements

Fundamental Aspects of Operational Risk and Insurance Analytics A Handbook of Operational Risk begins with coverage on the four data elements used in operational risk framework as well as processing risk taxonomy The book then goes further in depth into the key topics in operational risk measurement and insurance for example diverse methods to estimate frequency and severity models Finally the book ends with sections on specific topics such as scenario analysis multifactor modeling and dependence modeling A unique companion with *Advances in Heavy Tailed Risk Modeling* A Handbook of Operational Risk the handbook also features Discussions on internal loss data and key risk indicators which are both fundamental for developing a risk sensitive framework Guidelines for how operational risk can be inserted into a firm s strategic decisions A model for stress tests of operational risk under the United States Comprehensive Capital Analysis and Review CCAR program A valuable reference for financial engineers quantitative analysts risk managers and large scale consultancy groups advising banks on their internal systems the handbook is also useful for academics teaching postgraduate courses on the methodology of operational risk

Measuring and Managing Operational Risk Paola Leone,Pasqualina Porretta,Mario Vellella,2017-12-26 This book covers Operational Risk Management ORM in the current context and its new role in the risk management field The concept of operational risk is subject to a wide discussion also in the field of ORM s literature which has increased throughout the years By analyzing different methodologies that try to integrate qualitative and quantitative data or different measurement approaches the authors explore the methodological framework the assumptions statistical tool and the main results of an operational risk model projected by intermediaries A guide for academics and students the book also discusses the avenue of mitigation acts suggested by the main results of the methodologies applied The book will appeal to students academics and financial supervisory and regulatory authorities

Quantification of Operational Risk under Basel II I. Moosa,2008-10-31 The book presents arguments that are critical of the Basel II Accord particularly the advanced measurement approach to operational risk It is argued that the advanced measurement approach is not viable in terms of costs and benefits and is likely to distract financial institutions from the real task of managing

operational risk **Wisdom Web of Things** Ning Zhong, Jianhua Ma, Jiming Liu, Runhe Huang, Xiaohui Tao, 2016-11-07 This book provides a thorough overview of the Wisdom Web of Things W2T a holistic framework for computing and intelligence in an emerging hyper world with a social cyber physical space Fast evolving Web intelligence research and development initiatives are now moving toward understanding the multifaceted nature of intelligence and incorporating it at the Web scale in a ubiquitous environment with data connection and service explosion The book focuses on the framework and methodology of W2T as well as its applications in different problem domains such as intelligent businesses urban computing social computing brain informatics and healthcare From the researcher and developer perspectives the book takes a systematic structured view of various W2T facets and their overall contribution to the development of W2T as a whole Written by leading international researchers this book is an essential reference for researchers educators professionals and tertiary HDR students working on the World Wide Web ubiquitous computing knowledge management and business intelligence

Enterprise Development in SMEs and Entrepreneurial Firms: Dynamic Processes Ndubisi, Nelson Oly, Nwankwo, Sonny, 2013-02-28 In order to increase the economic opportunities available enterprise development plays a crucial role in the progression of socio economic development for small and medium enterprises Enterprise Development in SMEs and Entrepreneurial Firms Dynamic Processes explores the process of enterprise development and its reconstruction of entrepreneurial identities critical competencies as well as market turnaround for SMEs This book aims to be a critical resource in the understanding of enterprise strategies adopted and lessons learned for management development It is a successful resource for students researchers and professionals interested in the growth SMEs **Pattern Recognition and Machine Intelligence** Pradipta Maji, Ashish Ghosh, M. Narasimha Murty, Kuntal Ghosh, Sankar K. Pal, 2013-12-09 This book constitutes the refereed proceedings of the 5th International Conference on Pattern Recognition and Machine Intelligence PReMI 2013 held in Kolkata India in December 2013 The 101 revised papers presented together with 9 invited talks were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on pattern recognition machine learning image processing speech and video processing medical imaging document image processing soft computing bioinformatics and computational biology and social media mining Big Data Analysis: New Algorithms for a New Society Nathalie Japkowicz, Jerzy Stefanowski, 2015-12-16 This edited volume is devoted to Big Data Analysis from a Machine Learning standpoint as presented by some of the most eminent researchers in this area It demonstrates that Big Data Analysis opens up new research problems which were either never considered before or were only considered within a limited range In addition to providing methodological discussions on the principles of mining Big Data and the difference between traditional statistical data analysis and newer computing frameworks this book presents recently developed algorithms affecting such areas as business financial forecasting human mobility the Internet of Things information networks bioinformatics medical systems and life science It explores through a number of specific examples how the study of Big Data

Analysis has evolved and how it has started and will most likely continue to affect society While the benefits brought upon by Big Data Analysis are underlined the book also discusses some of the warnings that have been issued concerning the potential dangers of Big Data Analysis along with its pitfalls and challenges *Interactive Granular Computations in Networks and Systems Engineering: A Practical Perspective* Andrzej Jankowski, 2017-06-25 The book outlines selected projects conducted under the supervision of the author Moreover it discusses significant relations between Interactive Granular Computing IGrC and numerous dynamically developing scientific domains worldwide along with features characteristic of the author's approach to IGrC The results presented are a continuation and elaboration of various aspects of Wisdom Technology initiated and developed in cooperation with Professor Andrzej Skowron Based on the empirical findings from these projects the author explores the following areas a understanding the causes of the theory and practice gap problem TPGP in complex systems engineering CSE b generalizing computing models of complex adaptive systems CAS in particular natural computing models by constructing an interactive granular computing IGrC model of networks of interrelated interacting complex granules c granules belonging to a single agent and or to a group of agents c developing methodologies based on the IGrC model to minimize the negative consequences of the TPGP The book introduces approaches to the above issues using the proposed IGrC model In particular the IGrC model refers to the key mechanisms used to control the processes related to the implementation of CSE projects One of the main aims was to develop a mechanism of IGrC control over computations that model a project's implementation processes to maximize the chances of its success while at the same time minimizing the emerging risks In this regard the IGrC control is usually performed by means of properly selected and enforced among project participants project principles These principles constitute examples of c granules expressed by complex vague concepts represented by c granules too The c granules evolve with time in particular the meaning of the concepts is also subject of change This methodology is illustrated using project principles applied by the author during the implementation of the POLTAX AlgoTradix Merix and Excavio projects outlined in the book **Monte Carlo and Quasi-Monte Carlo Methods 2012** Josef Dick, Frances Y. Kuo, Gareth W. Peters, Ian H. Sloan, 2013-12-05 This book represents the refereed proceedings of the Tenth International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing that was held at the University of New South Wales Australia in February 2012 These biennial conferences are major events for Monte Carlo and the premiere event for quasi Monte Carlo research The proceedings include articles based on invited lectures as well as carefully selected contributed papers on all theoretical aspects and applications of Monte Carlo and quasi Monte Carlo methods The reader will be provided with information on latest developments in these very active areas The book is an excellent reference for theoreticians and practitioners interested in solving high dimensional computational problems arising in particular in finance statistics and computer graphics **Small and Medium Enterprises: Concepts, Methodologies, Tools, and Applications** Management

Association, Information Resources,2013-04-30 This book provides a comprehensive collection of research on current technological developments and organizational perspectives on the scale of small and medium enterprises Provided by publisher

Scenario Analysis in Risk Management Bertrand K. Hassani,2016-10-26 This book focuses on identifying and explaining the key determinants of scenario analysis in the context of operational risk stress testing and systemic risk as well as management and planning Each chapter presents alternative solutions to perform reliable scenario analysis The author also provides technical notes and describes applications and key characteristics for each of the solutions In addition the book includes a section to help practitioners interpret the results and adjust them to real life management activities Methodologies including those derived from consensus strategies extreme value theory Bayesian networks Neural networks Fault Trees frequentist statistics and data mining are introduced in such a way as to make them understandable to readers without a quantitative background Particular emphasis is given to the added value of the implementation of these methodologies

Investment Risk Management Harold Kent Baker,Greg Filbeck,2015 Investment Risk Management provides an overview of developments in risk management and a synthesis of research on the subject The chapters examine ways to alter exposures through measuring and managing risk exposures and provide an understanding of the latest strategies and trends within risk management

Encyclopedia of Financial Models, Volume III Frank J. Fabozzi,2012-09-12 Volume 3 of the Encyclopedia of Financial Models The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and make use of the various models currently available Incorporating timely research and in depth analysis Volume 3 of the Encyclopedia of Financial Models covers both established and cutting edge models and discusses their real world applications Edited by Frank Fabozzi this volume includes contributions from global financial experts as well as academics with extensive consulting experience in this field Organized alphabetically by category this reliable resource consists of forty four informative entries and provides readers with a balanced understanding of today s dynamic world of financial modeling Volume 3 covers Mortgage Backed Securities Analysis and Valuation Operational Risk Optimization Tools Probability Theory Risk Measures Software for Financial Modeling Stochastic Processes and Tools Term Structure Modeling Trading Cost Models and Volatility Emphasizes both technical and implementation issues providing researchers educators students and practitioners with the necessary background to deal with issues related to financial modeling The 3 Volume Set contains coverage of the fundamentals and advances in financial modeling and provides the mathematical and statistical techniques needed to develop and test financial models Financial models have become increasingly commonplace as well as complex They are essential in a wide range of financial endeavors and the Encyclopedia of Financial Models will help put them in perspective

Handbook of Approximate Bayesian Computation Scott A. Sisson,Yanan Fan,Mark

Beaumont,2018-09-03 As the world becomes increasingly complex so do the statistical models required to analyse the challenging problems ahead For the very first time in a single volume the Handbook of Approximate Bayesian Computation ABC presents an extensive overview of the theory practice and application of ABC methods These simple but powerful statistical techniques take Bayesian statistics beyond the need to specify overly simplified models to the setting where the model is defined only as a process that generates data This process can be arbitrarily complex to the point where standard Bayesian techniques based on working with tractable likelihood functions would not be viable ABC methods finesse the problem of model complexity within the Bayesian framework by exploiting modern computational power thereby permitting approximate Bayesian analyses of models that would otherwise be impossible to implement The Handbook of ABC provides illuminating insight into the world of Bayesian modelling for intractable models for both experts and newcomers alike It is an essential reference book for anyone interested in learning about and implementing ABC techniques to analyse complex models in the modern world

Revisiting Supply Chain Risk George A. Zsidisin,Michael Henke,2018-12-18 This book offers a bridge between our current understanding of supply chain risk in practice and theory and the monumental shifts caused by the emergence of the fourth industrial revolution Supply chain risk and its management have experienced significant attention in scholarship and practice over the past twenty years Our understanding of supply chain risk and its many facets such as uncertainty and vulnerability has expanded beyond utilizing approaches such as deploying inventory to buffer the initial effects of disruptions Even with our increased knowledge of supply chain risk being in the era of lean supply chain practices digitally managed global supply chains and closely interconnected networks firms are exposed as ever to supply chain uncertainties that can damage or even destroy their ability to compete in the marketplace The book acknowledges the criticality of big data analytics in Supply Chain Risk Management SCRM processes and provides appropriate tools and approaches for creating robust SCRM processes Revisiting Supply Chain Risk presents a state of the art look at SCRM through current research and philosophical thought It is divided into six sections that highlight established themes as well as provide new insights to developing areas of inquiry and contexts on the topic Section 1 examines the first step in managing supply chain risk risk assessment The chapters in Section 2 encompass resiliency in supply chains while Section 3 looks at relational and behavioral perspectives from varying units of analysis including consortiums teams and decision makers Section 4 focuses on examining supply chain risk in the contexts of sustainability and innovation Section 5 provides insight on emerging typologies and taxonomies for classifying supply chain risk The book concludes with Section 6 featuring illustrative case studies as real world examples in assessing and managing supply chain risk

Special Issue of the Manufacturing Engineering Society 2019 (SIMES-2019) Eva M. Rubio,Ana M. Camacho,2020-07-03 This book derives from the Special Issue of the Manufacturing Engineering Society 2019 SIMES 2019 that has been launched as a joint issue of the journals Materials and Applied Sciences The 29 contributions published in this Special Issue of Materials present cutting

edge advances in the field of manufacturing engineering focusing on additive manufacturing and 3D printing advances and innovations in manufacturing processes sustainable and green manufacturing manufacturing of new materials metrology and quality in manufacturing industry 4 0 design modeling and simulation in manufacturing engineering and manufacturing engineering and society Among them the topic Additive Manufacturing and 3D Printing has attracted a large number of contributions in this journal due to its widespread popularity and potential

Adopting the Track of Phrase: An Emotional Symphony within **Modelling Operational Risk Using Bayesian Inference**

In a world eaten by monitors and the ceaseless chatter of instantaneous communication, the melodic elegance and psychological symphony produced by the prepared term frequently disappear into the backdrop, eclipsed by the persistent sound and interruptions that permeate our lives. Nevertheless, situated within the pages of **Modelling Operational Risk Using Bayesian Inference** a charming literary prize filled with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this interesting masterpiece conducts visitors on a psychological trip, skillfully unraveling the concealed songs and profound affect resonating within each carefully constructed phrase. Within the depths with this moving assessment, we can examine the book's main harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers' souls.

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