PAVEL V. SHEVCHENKO

Modelling Operational Risk Using Bayesian Inference

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Modelling Operational Risk Using Bayesian Inference

Bertrand K. Hassani

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 Skew T-copulas and Bayesian Inference Betty Johanna Garzon Rozo,2016 **Fundamental Aspects of Operational Risk and Insurance Analytics** Marcelo G. Cruz,Gareth W. Peters,Pavel V. Shevchenko,2015-01-20 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   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 *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 *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 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 Quantitative Operational Risk Models Catalina Bolancé,Montserrat Guillén,Jim Gustafsson,Jens Perch Nielsen,2012-02-15 Using real life examples from the banking and insurance industries Quantitative Operational Risk Models details how internal data can be improved based on external information of various kinds Using a simple and intuitive methodology based on classical transformation methods the book includes real life examples of the combination of internal data and external information A guideline for practitioners the book begins with the basics of managing operational risk data to more sophisticated and recent tools needed to quantify the capital requirements imposed by operational risk The book then covers statistical theory prerequisites and explains how to

implement the new density estimation methods for analyzing the loss distribution in operational risk for banks and insurance companies In addition it provides Simple intuitive and general methods to improve on internal operational risk assessment Univariate event loss severity distributions analyzed using semiparametric models Methods for the introduction of underreporting information A practical method to combine internal and external operational risk data including guided examples in SAS and R Measuring operational risk requires the knowledge of the quantitative tools and the comprehension of insurance activities in a very broad sense both technical and commercial Presenting a nonparametric approach to modeling operational risk data Quantitative Operational Risk Models offers a practical perspective that combines statistical analysis and management orientations   **Risk, Ruin and Survival** Ricardas Zitikis,Jiandong Ren,Kristina Sendova,2020-04-02 Developing techniques for assessing various risks and calculating probabilities of ruin and survival are exciting topics for mathematically inclined academics For practicing actuaries and financial engineers the resulting insights have provided enormous opportunities but also created serious challenges to overcome thus facilitating closer cooperation between industries and academic institutions In this book several renown researchers with extensive interdisciplinary research experiences share their thoughts that in one way or another contribute to the betterment of practice and theory of decision making under uncertainty Behavioral cultural mathematical and statistical aspects of risk assessment and modelling have been explored and have been often illustrated using real and simulated data Topics range from financial and insurance risks to security type risks from one dimensional to multi and even infinite dimensional risks The articles in the book were written with a broad audience in mind and should provide enjoyable reading for those with university level degrees and or those who have studied for accreditation by various actuarial and financial societies   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   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   *Ageing Population Risks* Pavel Shevchenko,2018-08-09 This book is a printed edition of the Special Issue Ageing Population Risks

that was published in Risks   **Quantitative Risk Management** Alexander J. McNeil,Rüdiger Frey,Paul Embrechts,2015-05-26 This book provides the most comprehensive treatment of the theoretical concepts and modelling techniques of quantitative risk management Whether you are a financial risk analyst actuary regulator or student of quantitative finance Quantitative Risk Management gives you the practical tools you need to solve real world problems Describing the latest advances in the field Quantitative Risk Management covers the methods for market credit and operational risk modelling It places standard industry approaches on a more formal footing and explores key concepts such as loss distributions risk measures and risk aggregation and allocation principles The book s methodology draws on diverse quantitative disciplines from mathematical finance and statistics to econometrics and actuarial mathematics A primary theme throughout is the need to satisfactorily address extreme outcomes and the dependence of key risk drivers Proven in the classroom the book also covers advanced topics like credit derivatives Fully revised and expanded to reflect developments in the field since the financial crisis Features shorter chapters to facilitate teaching and learning Provides enhanced coverage of Solvency II and insurance risk management and extended treatment of credit risk including counterparty credit risk and CDO pricing Includes a new chapter on market risk and new material on risk measures and risk aggregation   *Mathematical Control Theory and Finance* Andrey Sarychev,Albert Shiryaev,Manuel Guerra,Maria do Rosário Grossinho,2009-03-31 Control theory provides a large set of theoretical and computational tools with applications in a wide range of elds running from pure branches of mathematics like geometry to more applied areas where the objective is to nd solutions to real life problems as is the case in robotics control of industrial processes or nance The high tech character of modern business has increased the need for advanced methods These rely heavily on mathematical techniques and seem indispensable for competitiveness of modern enterprises It became essential for the nancial analyst to possess a high level of mathematical skills C versely the complex challenges posed by the problems and models relevant to nance have for a long time been an important source of new research topics for mathematicians The use of techniques from stochastic optimal control constitutes a well established and important branch of mathematical nance Up to now other branches of control theory have found comparatively less application in n cial problems To some extent deterministic and stochastic control theories developed as di erent branches of mathematics However there are many points of contact between them and in recent years the exchange of ideas between these elds has intensi ed Some concepts from stochastic calculus e g rough paths havedrawntheattentionofthedeterministiccontroltheorycommunity Also some ideas and tools usual in deterministic control e g geometric algebraic or functional analytic methods can be successfully applied to stochastic c trol   **E-business Technology and Strategy** Marzia Zaman,Yawei Liang,Sohail M. Siddiqui,Tim Wang,Vincent Liu,Ceecee Lu,2010-09-27 The International Conference on E business Technology Strategy CETS provides a peer reviewed forum for researchers from across the globe to share contemporary research on developments in the fields of e business information technology and

business strategy It seeks to promote effective and vibrant networking among researchers and practitioners from around the world who are concerned about the effective management of information technology in organizations This network of researchers views fostering the development of emerging scholars in the information technology and e business fields as its primary task Consequently the conference is designed to provide a venue for researchers to get substantive and beneficial feedback on their work There were 134 contributions submitted to CETS 2010 After in depth discussions 29 high quality contributions were selected for publication in this volume The authors are from Canada USA China Japan India and Malaysia We thank all the authors who submitted papers the Program Committee members and the external reviewers We also thank all the local people who were instrumental in making this edition of CETS another very successful event In particular we are very grateful to Ying Xie who was responsible for the local arrangements Special gratitude goes to the publishing editor Leonie Kunz who managed the complexity of information and communication aspects Furthermore we thank the many students who volunteered on the organization team as well as the IT services of Carleton University   Financial Modeling, Actuarial Valuation and Solvency in Insurance Mario V. Wüthrich,Michael Merz,2013-04-04 Risk management for financial institutions is one of the key topics the financial industry has to deal with The present volume is a mathematically rigorous text on solvency modeling Currently there are many new developments in this area in the financial and insurance industry Basel III and Solvency II but none of these developments provides a fully consistent and comprehensive framework for the analysis of solvency questions Merz and W thrich combine ideas from financial mathematics no arbitrage theory equivalent martingale measure actuarial sciences insurance claims modeling cash flow valuation and economic theory risk aversion probability distortion to provide a fully consistent framework Within this framework they then study solvency questions in incomplete markets analyze hedging risks and study asset and liability management questions as well as issues like the limited liability options dividend to shareholder questions the role of re insurance etc This work embeds the solvency discussion and long term liabilities into a scientific framework and is intended for researchers as well as practitioners in the financial and actuarial industry especially those in charge of internal risk management systems Readers should have a good background in probability theory and statistics and should be familiar with popular distributions stochastic processes martingales etc   **Quantum Social Science** Emmanuel Haven,Andreĭ I␣U␣r′evich Khrennikov,2013-01-17 Written by world experts in the foundations of quantum mechanics this book shows how elementary quantum mechanical principles can be applied to social sciences problems Aimed at economists and psychologists as well as physicists it explores the exciting field of quantum social science   *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   *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   *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

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