

RANDOM FIELDS

Analysis and Synthesis

Revised and Expanded New Edition

Erik Vanmarcke



World Scientific

Random Fields Analysis And Synthesis

Stan Z. Li



Random Fields Analysis And Synthesis:

Random Fields Erik Vanmarcke, 2010 Random variation is a fact of life that provides substance to a wide range of problems in the sciences engineering and economics There is a growing need in diverse disciplines to model complex patterns of variation and interdependence using random fields as both deterministic treatment and conventional statistics are often insufficient An ideal random field model will capture key features of complex random phenomena in terms of a minimum number of physically meaningful and experimentally accessible parameters This volume a revised and expanded edition of an acclaimed book first published by the M I T Press offers a synthesis of methods to describe and analyze and where appropriate predict and control random fields There is much new material covering both theory and applications notably on a class of probability distributions derived from quantum mechanics relevant to stochastic modeling in fields such as cosmology biology and system reliability and on discrete unit or agent based random processes Random Fields is self contained and unified in presentation The first edition was found in a review in EOS American Geophysical Union to be both technically interesting and a pleasure to read the presentation is clear and the book should be useful to almost anyone who uses random processes to solve problems in engineering or science and there is continued emphasis on describing the mathematics in physical terms

Random Fields, Analysis and Synthesis Erik Vanmarcke, 1983-01 The purpose of this book is to bring together existing and new methodologies of random field theory and indicate how they can be applied to these diverse areas where a deterministic treatment is inefficient and conventional statistics insufficient

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Vanmarcke, 2010-07-21 Random variation is a fact of life that provides substance to a wide range of problems in the sciences engineering and economics There is a growing need in diverse disciplines to model complex patterns of variation and interdependence using random fields as both deterministic treatment and conventional statistics are often insufficient An ideal random field model will capture key features of complex random phenomena in terms of a minimum number of physically meaningful and experimentally accessible parameters This volume a revised and expanded edition of an acclaimed book first published by the M I T Press offers a synthesis of methods to describe and analyze and where appropriate predict and control random fields There is much new material covering both theory and applications notably on a class of probability distributions derived from quantum mechanics relevant to stochastic modeling in fields such as cosmology biology and system reliability and on discrete unit or agent based random processes Random Fields is self contained and unified in presentation The first edition was found in a review in EOS American Geophysical Union to be both technically interesting and a pleasure to read the presentation is clear and the book should be useful to almost anyone who uses random processes to solve problems in engineering or science and there is continued emphasis on describing the mathematics in physical terms

Random Fields and Stochastic Lagrangian Models Karl K. Sabelfeld, Nikolai A. Simonov, 2012-12-06 The book presents

advanced stochastic models and simulation methods for random flows and transport of particles by turbulent velocity fields and flows in porous media Two main classes of models are constructed 1 turbulent flows are modeled as synthetic random fields which have certain statistics and features mimicing those of turbulent fluid in the regime of interest and 2 the models are constructed in the form of stochastic differential equations for stochastic Lagrangian trajectories of particles carried by turbulent flows The book is written for mathematicians physicists and engineers studying processes associated with probabilistic interpretation researchers in applied and computational mathematics in environmental and engineering sciences dealing with turbulent transport and flows in porous media as well as nucleation coagulation and chemical reaction analysis under fluctuation conditions It can be of interest for students and post graduates studying numerical methods for solving stochastic boundary value problems of mathematical physics and dispersion of particles by turbulent flows and flows in porous media *Image Analysis, Random Fields and Markov Chain Monte Carlo Methods* Gerhard Winkler, 2012-12-06

This second edition of G Winkler s successful book on random field approaches to image analysis related Markov Chain Monte Carlo methods and statistical inference with emphasis on Bayesian image analysis concentrates more on general principles and models and less on details of concrete applications Addressed to students and scientists from mathematics statistics physics engineering and computer science it will serve as an introduction to the mathematical aspects rather than a survey Basically no prior knowledge of mathematics or statistics is required The second edition is in many parts completely rewritten and improved and most figures are new The topics of exact sampling and global optimization of likelihood functions have been added *Image Analysis, Random Fields and Dynamic Monte Carlo Methods* Gerhard Winkler, 2012-12-06 This text is concerned with a probabilistic approach to image analysis as initiated by U GRENANDER D and S GEMAN B R HUNT and many others and developed and popularized by D and S GEMAN in a paper from 1984 It formally adopts the Bayesian paradigm and therefore is referred to as Bayesian Image Analysis There has been considerable and still growing interest in prior models and in particular in discrete Markov random field methods Whereas image analysis is replete with ad hoc techniques Bayesian image analysis provides a general framework encompassing various problems from imaging Among those are such classical applications like restoration edge detection texture discrimination motion analysis and tomographic reconstruction The subject is rapidly developing and in the near future is likely to deal with high level applications like object recognition Fascinating experiments by Y CHOW U GRENANDER and D M KEENAN 1987 1990 strongly support this belief

Markov Random Field Modeling in Image Analysis Stan Z. Li, 2013-03-14 Markov random field MRF theory provides a basis for modeling contextual constraints in visual processing and interpretation It enables us to develop optimal vision algorithms systematically when used with optimization principles This book presents a comprehensive study on the use of MRFs for solving computer vision problems The book covers the following parts essential to the subject introduction to fundamental theories formulations of MRF vision models MRF parameter estimation and optimization algorithms Various

vision models are presented in a unified framework including image restoration and reconstruction edge and region segmentation texture stereo and motion object matching and recognition and pose estimation This second edition includes the most important progress in Markov modeling in image analysis in recent years such as Markov modeling of images with macro patterns e g the FRAME model Markov chain Monte Carlo MCMC methods reversible jump MCMC This book is an excellent reference for researchers working in computer vision image processing statistical pattern recognition and applications of MRFs It is also suitable as a text for advanced courses in these areas

Biometric Inverse Problems

Svetlana N. Yanushkevich, Adrian Stoica, Vlad P. Shmerko, Denis V. Popel, 2018-10-08 Traditional methods of biometric analysis are unable to overcome the limitations of existing approaches mainly due to the lack of standards for input data privacy concerns involving use and storage of actual biometric data and unacceptable accuracy Exploring solutions to inverse problems in biometrics transcends such limits and allows rich analysis of biometric information and systems for improved performance and testing Although some particular inverse problems appear in the literature until now there has been no comprehensive reference for these problems Biometric Inverse Problems provides the first comprehensive treatment of biometric data synthesis and modeling This groundbreaking reference comprises eight self contained chapters that cover the principles of biometric inverse problems basics of data structure design new automatic synthetic signature fingerprint and iris design synthetic faces and DNA and new tools for biometrics based on Voronoi diagrams Based on the authors vast experience in the field the book authoritatively examines new approaches and methodologies in both direct and inverse biometrics providing invaluable analytical and benchmarking tools The authors include case studies examples and implementation codes for practical illustration of the methods Loaded with approximately 200 figures 60 problems 50 MATLAB code fragments and 200 examples Biometric Inverse Problems sets the standard for innovation and authority in biometric data synthesis modeling and analysis

Dependability Engineering Fausto Pedro García Márquez, Mayorkinos Papaelias, 2018-06-06 The new technology and system communication advances are being employed in any system being more complex The system dependability considers the technical complexity size and interdependency of the system The stochastic characteristic together with the complexity of the systems as dependability requires to be under control the Reliability Availability Maintainability and Safety RAMS The dependability contemplates therefore the faults failures downtimes stoppages worker errors etc Dependability also refers to emergent properties i e properties generated indirectly from other systems by the system analyzed Dependability understood as general description of system performance requires advanced analytics that are considered in this book Dependability management and engineering are covered with case studies and best practices The diversity of the issues will be covered from algorithms mathematical models and software engineering by design methodologies and technical or practical solutions This book intends to provide the reader with a comprehensive overview of the current state of the art case studies hardware and software solutions analytics and data

science in dependability engineering Image Textures and Gibbs Random Fields Georgy L. Gimel'farb, 2012-12-06 Image analysis is one of the most challenging areas in today's computer science and image technologies are used in a host of applications. This book concentrates on image textures and presents novel techniques for their simulation, retrieval, and segmentation using specific Gibbs random fields with multiple pairwise interaction between signals as probabilistic image models. These models and techniques were developed mainly during the previous five years in relation to April 1999 when these words were written. While scanning these pages you may notice that in spite of long equations the mathematical background is extremely simple. I have tried to avoid complex abstract constructions and give explicit physical to be specific image based explanations to all the mathematical notions involved. Therefore it is hoped that the book can be easily read both by professionals and graduate students in computer science and electrical engineering who take an interest in image analysis and synthesis. Perhaps mathematicians studying applications of random fields may find here some less traditional and thus controversial views and techniques.

Computational Stochastic Mechanics P.D. Spanos, C.A. Brebbia, 2012-12-06 Over a period of several years the field of probabilistic mechanics and computational mechanics have progressed vigorously but independently. With the advent of powerful computational hardware and the development of novel mechanical techniques the field of stochastic mechanics has progressed in such a manner that the inherent uncertainty of quite complicated systems can be addressed. The first International Conference on Computational Stochastic Mechanics was convened in Corfu in September 1991 in an effort to provide a forum for the exchanging of ideas on the current status of computational methods as applied to stochastic mechanics and for identifying needs for further research. The Conference covered both theoretical techniques and practical applications. The Conference also celebrated the 60th anniversary of the birthday of Dr Masanobu Shinozuka, the Sollenberger Professor of Civil Engineering at Princeton University whose work has contributed in such a great measure to the development of Computational Stochastic Mechanics. A brief summary of his career and achievements are given in the Dedication. This book comprises some of the papers presented at the meeting and covers sections on Theoretical Reliability Analysis, Damage Analysis, Applied Reliability Analysis, Theoretical Random Vibrations, Stochastic Finite Element Concept, Fatigue and Fracture, Monte Carlo Simulations, Earthquake Engineering Applications, Materials Applied Random Vibrations, Applied Stochastic Finite Element Analysis, and Flow Related Applications and Chaotic Dynamics. The Editors hope that the book will be a valuable contribution to the growing literature covering the field of Computational Stochastic Mechanics.

Proceedings of the Rocscience International Conference 2023 (RIC2023) Reginald E. Hammah, Sina Javankhoshdel, Thamer Yacoub, Alireza Azami, Alison McQuillan, 2023-11-06 This is an open access book. Rocscience is delighted to announce the Rocscience International Conference 2023 (RIC2023) an in person gathering to be held from April 24-26, 2023 in Toronto, Canada. RIC2023's primary objective is to bring geotechnical professionals together to meet and exchange ideas on important issues and developments in geotechnical engineering, particularly combinations of

emerging and mature technologies The geotechnical industry is rapidly evolving Engineers are more connected through technology technology is becoming more integrated than ever and methods combining these technologies are becoming more prevalent This movement towards combining technologies led us to the conference theme Synergy in Geotechnical Engineering Success Beyond Individual Technologies We believe the time is right to highlight how far the industry has come with various technologies and continues to develop The conference aims to create an environment that fosters new perspectives and helps attendees delve deeper into innovative approaches During RIC2023 Rocscience will award the 2023 Lifetime Achievement Medal to Dr Norbert Morgenstern an internationally recognized authority in the engineering community As both a practitioner and educator Dr Morgenstern s contributions to the geotechnical community continue to benefit engineers worldwide and he will give an address on his career In addition to keynotes by Dr Morgernstern and four other distinguished speakers there will be several technical and networking sessions

Geotechnical Reliability Analysis

Jie Zhang, Te Xiao, Jian Ji, Peng Zeng, Zijun Cao, 2023-09-14 This textbook systematically introduces the theories methods and algorithms for geotechnical reliability analysis There are a lot of illustrative examples in the textbook such that readers can easily grasp the concepts and theories related to geotechnical reliability analysis A unique feature of the textbook is that computer codes are also provided through carefully designed examples such that the methods and the algorithms described in the textbook can be easily understood In addition the computer codes are flexible and can be conveniently extended to analyze different types of realistic problems with little additional efforts

Image Analysis And Pattern Recognition:

State Of The Art In The Russian Federation Igor B Gurevich, Vera V Yashina, 2025-02-20 This collective compendium highlights the achievements of Soviet and Russian mathematical and computer science scientific schools in the area of image analysis and understanding pattern recognition artificial intelligence and adjacent fields of computer sciences and applied mathematics Contributed by renowned researchers the materials collated are original papers never published before This chapters provide good balance between fundamental and applied statements of problems and results This unique reference text benefits professionals researchers academics and graduate students in pattern recognition image analysis theoretical computer science and AI

Seminar on Stochastic Analysis, Random Fields and Applications IV Robert Dalang, Marco

Dozzi, Francesco Russo, 2012-12-06 This volume contains the Proceedings of the Fourth Seminar on Stochastic Analysis Random Fields and Applications which took place at the Centro Stefano Franchini Monte Verita in Ascona Ticino Switzerland from May 20 to 24 2002 The first three editions of this conference occurred in 1993 1996 and 1999 The Seminar covered several topics fundamental aspects of stochastic analysis such as stochastic partial differential equations and random fields and applications to current active fields such as probabilistic methods in fluid dynamics biostatistics and financial modeling As in the previous editions this last topic was the subject of the Fourth Minisymposium on Stochastic Methods in Financial Models These proceedings aim to present key aspects of these topics to a larger audience All papers in this volume

have been refereed A major topic within Stochastic Analysis is the area of random fields which includes as particular cases Gaussian random fields stochastic partial differential equations s p d e s and stochastic differential equations with values in Banach spaces In this framework interesting new developments were presented in the theory of Gaussian random fields on manifolds with applications to astrophysics and neurosciences Moreover with the aim of modeling certain very irregular phenomena a theory of s p d e s driven by noises concentrated on hyperplanes was presented Handbook of Texture Analysis Majid Mirmehdi,Xianghua Xie,Jasjit S. Suri,2008 Texture analysis is one of the fundamental aspects of human vision by which we discriminate between surfaces and objects In a similar manner computer vision can take advantage of the cues provided by surface texture to distinguish and recognize objects In computer vision texture analysis may be used alone or in combination with other sensed features e g color shape or motion to perform the task of recognition Either way it is a feature of paramount importance and boasts a tremendous body of work in terms of both research and applications Currently the main approaches to texture analysis must be sought out through a variety of research papers This collection of chapters brings together in one handy volume the major topics of importance and categorizes the various techniques into comprehensible concepts The methods covered will not only be relevant to those working in computer vision but will also be of benefit to the computer graphics psychophysics and pattern recognition communities academic or industrial

Geotechnical Safety and Risk V T. Schweckendiek,A.F. van Tol,D. Pereboom,2015-10-09 Geotechnical Risk and Safety V contains contributions presented at the 5th International Symposium on Geotechnical Safety and Risk 5th ISGSR Rotterdam 13 16 October 2015 which was organized under the auspices of the Geotechnical Safety Network GEOSNet and the following technical committees of the of the International Society of Soil Mechanics and Geotechnical Engineering ISSGME TC304 Engineering Practice of Risk Assessment Management TC205 Safety and Serviceability in Geotechnical Design TC212 Deep Foundations TC302 Forensic Geotechnical Engineering Geotechnical Risk and Safety V covers seven themes 1 Geotechnical Risk Management and Risk Communication 2 Variability in Ground Conditions and Site Investigation 3 Reliability and Risk Analysis of Geotechnical Structures 4 Limit state design in Geotechnical Engineering 5 Assessment and Management of Natural Hazards 6 Contractual and Legal Issues of Foundation and Under Ground Works 7 Case Studies Monitoring and Observational Method The 5th ISGSR is the continuation of a series of symposiums and workshops on geotechnical risk and reliability starting with LSD2000 Melbourne Australia IWS2002 Tokyo and Kamakura Japan LSD2003 Cambridge USA Georisk2004 Bangalore India Taipei2006 Taipei Taiwan the 1st ISGSR Shanghai China 2007 the 2nd ISGSR Gifu Japan 2009 the 3rd ISGSR Munich Germany 2011 and the 4th ISGSR Hong Kong 2013 **Progress in Pattern Recognition, Image Analysis and Applications** José Ruiz-Shulcloper,Walter Kropatsch,2008-09-17 This book constitutes the refereed proceedings of the 13th Iberoamerican Congress on Pattern Recognition CIARP 2008 held in Havana Cuba in September 2008 The 93 revised full papers presented together with 3 keynote articles were carefully reviewed and selected from 182

submissions The papers are organized in topical sections on signal analysis for characterization and filtering analysis of shape and texture analysis of speech and language data mining clustering of images and documents statistical pattern recognition classification and description of objects classification and edition geometric image analysis neural networks computer vision image coding associative memories and neural networks interpolation and video tracking images analysis music and speech analysis as well as classifier combination and document filtering Uncertainty, Modeling, and Decision Making in Geotechnics Kok-Kwang Phoon,Takayuki Shuku,Jianye Ching,2023-12-11 Uncertainty Modeling and Decision Making in Geotechnics shows how uncertainty quantification and numerical modeling can complement each other to enhance decision making in geotechnical practice filling a critical gap in guiding practitioners to address uncertainties directly The book helps practitioners acquire a working knowledge of geotechnical risk and reliability methods and guides them to use these methods wisely in conjunction with data and numerical modeling In particular it provides guidance on the selection of realistic statistics and a cost effective accessible method to address different design objectives and for different problem settings and illustrates the value of this to decision making using realistic examples Bringing together statistical characterization reliability analysis reliability based design probabilistic inverse analysis and physical insights drawn from case studies this reference guide from an international team of experts offers an excellent resource for state of the practice uncertainty informed geotechnical design for specialist practitioners and the research community

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