



Introduction to Stochastic Processes

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An Introduction To Sparse Stochastic Processes

Patrick Flandrin



An Introduction To Sparse Stochastic Processes:

An Introduction to Sparse Stochastic Processes Michael A. Unser, Pouya Tafti, 2014 *An Introduction to Sparse Stochastic Processes* Michael A. Unser, Pouya Tafti, 2014 Providing a novel approach to sparsity this comprehensive book presents the theory of stochastic processes that are ruled by linear stochastic differential equations and that admit a parsimonious representation in a matched wavelet like basis Two key themes are the statistical property of infinite divisibility which leads to two distinct types of behaviour Gaussian and sparse and the structural link between linear stochastic processes and spline functions which is exploited to simplify the mathematical analysis The core of the book is devoted to investigating sparse processes including a complete description of their transform domain statistics The final part develops practical signal processing algorithms that are based on these models with special emphasis on biomedical image reconstruction This is an ideal reference for graduate students and researchers with an interest in signal image processing compressed sensing approximation theory machine learning or statistics An Introduction to Sparse Stochastic Processes Michael Unser, Pouya D. Tafti, 2014-08-21 A detailed guide to sparsity providing a description of their transform domain statistics and applying the models to practical algorithms *Focus On: 100 Most Popular Deaths from Pneumonia* Wikipedia contributors, *Explorations in Time-Frequency Analysis* Patrick Flandrin, 2018-09-06 Understand the methods of modern non stationary signal processing with authoritative insights from a leader in the field **Operator-Adapted Wavelets, Fast Solvers, and Numerical Homogenization** Houman Owhadi, Clint Scovel, 2019-10-24 Presents interplays between numerical approximation and statistical inference as a pathway to simple solutions to fundamental problems Spherical Functions of Mathematical Geosciences Willi Freeden, Michael Schreiner, 2022-10-14 This book is an enlarged second edition of a monograph published in the Springer AGEM2 Series 2009 It presents in a consistent and unified overview a setup of the theory of spherical functions of mathematical geo sciences The content shows a twofold transition First the natural transition from scalar to vectorial and tensorial theory of spherical harmonics is given in a coordinate free context based on variants of the addition theorem Funk Hecke formulas and Helmholtz as well as Hardy Hodge decompositions Second the canonical transition from spherical harmonics via zonal kernel functions to the Dirac kernel is given in close orientation to an uncertainty principle classifying the space frequency momentum behavior of the functions for purposes of data analysis and geo application The whole palette of spherical functions is collected in a well structured form for modeling and simulating the phenomena and processes occurring in the Earth s system The result is a work which while reflecting the present state of knowledge in a time related manner claims to be of largely timeless significance in geo mathematical research and teaching Deep Learning for Biomedical Image Reconstruction Jong Chul Ye, Yonina C. Eldar, Michael Unser, 2023-10-12 Discover the power of deep neural networks for image reconstruction with this state of the art review of modern theories and applications The background theory of deep learning is introduced step by step and by incorporating modeling fundamentals

this book explains how to implement deep learning in a variety of modalities including X ray CT MRI and others Real world examples demonstrate an interdisciplinary approach to medical image reconstruction processes featuring numerous imaging applications Recent clinical studies and innovative research activity in generative models and mathematical theory will inspire the reader towards new frontiers This book is ideal for graduate students in Electrical or Biomedical Engineering or Medical Physics

An Introduction to Stochastic Processes with Applications to Biology Linda J. S. Allen, 2010-12-02 An Introduction to Stochastic Processes with Applications to Biology Second Edition presents the basic theory of stochastic processes necessary in understanding and applying stochastic methods to biological problems in areas such as population growth and extinction drug kinetics two species competition and predation the spread of epidemics and Stochastic Processes: Modeling and Simulation D N Shanbhag, Calyampudi Radhakrishna Rao, 2003-02-24 This sequel to volume 19 of Handbook on Statistics on Stochastic Processes Modelling and Simulation is concerned mainly with the theme of reviewing and in some cases unifying with new ideas the different lines of research and developments in stochastic processes of applied flavour This volume consists of 23 chapters addressing various topics in stochastic processes These include among others those on manufacturing systems random graphs reliability epidemic modelling self similar processes empirical processes time series models extreme value theory applications of Markov chains modelling with Monte Carlo techniques and stochastic processes in subjects such as engineering telecommunications biology astronomy and chemistry particular with modelling simulation techniques and numerical methods concerned with stochastic processes The scope of the project involving this volume as well as volume 19 is already clarified in the preface of volume 19 The present volume completes the aim of the project and should serve as an aid to students teachers researchers and practitioners interested in applied stochastic processes

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