



An Introduction to Sparse Stochastic Processes

Michael Unser and Pouya D. Tafti

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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 [An Introduction to Sparse Stochastic Processes](#) Michael Unser, Pouya D. Tafti, 2014-08-21 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 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

Applied Mathematical Programming and Modeling IV (APMOD 98) Hercules Vladimirov, 2001 *Financial Signal Processing and Machine Learning* Ali N. Akansu, Sanjeev R. Kulkarni, Dmitry M. Malioutov, 2016-04-20 The modern financial industry has been required to deal with large and diverse portfolios in a variety of asset classes often with limited market data available Financial Signal Processing and Machine Learning unifies a number of recent advances made in signal processing and machine learning for the design and management of investment portfolios and financial engineering This book bridges the gap between these disciplines offering the latest information on key topics including characterizing statistical dependence and correlation in high dimensions constructing effective and robust risk measures and their use in portfolio optimization and rebalancing The book focuses on signal processing approaches to model return momentum and mean reversion addressing theoretical and implementation aspects It highlights the connections between portfolio theory sparse learning and compressed sensing sparse eigen

portfolios robust optimization non Gaussian data driven risk measures graphical models causal analysis through temporal causal modeling and large scale copula based approaches Key features Highlights signal processing and machine learning as key approaches to quantitative finance Offers advanced mathematical tools for high dimensional portfolio construction monitoring and post trade analysis problems Presents portfolio theory sparse learning and compressed sensing sparsity methods for investment portfolios including eigen portfolios model return momentum mean reversion and non Gaussian data driven risk measures with real world applications of these techniques Includes contributions from leading researchers and practitioners in both the signal and information processing communities and the quantitative finance community

Dynamic General Equilibrium Modelling Burkhard Heer, Alfred Maussner, 2005-01-11 Modern business cycle theory and growth theory uses stochastic dynamic general equilibrium models Many mathematical tools are needed to solve these models The book presents various methods for computing the dynamics of general equilibrium models In part I the representative agent stochastic growth model is solved with the help of value function iteration linear and linear quadratic approximation methods parameterised expectations and projection methods In order to apply these methods fundamentals from numerical analysis are reviewed in detail Part II discusses methods for solving heterogeneous agent economies In such economies the distribution of the individual state variables is endogenous This part of the book also serves as an introduction to the modern theory of distribution economics Applications include the dynamics of the income distribution over the business cycle or the overlapping generations model Through an accompanying home page to this book computer codes to all applications can be downloaded *Optimal Investment with Behavioral Utilities Using a Binomial Tree Model for Asset-returns* Aparna Gupta, Walter Murray, 2000 [Energy Power Risk](#) George Levy, 2018-12-10 The book describes both mathematical and computational tools for energy and power risk management deriving from first principles stochastic models for simulating commodity risk and how to design robust C to implement these models *Sparse Approximations of Inverse Matrices* Harry Nelis, 1989 **The Journal of Computational Finance**, 2006 **Management Science**, 1954 Includes special issues The Professional series in the management sciences *Mathematical Tools for Understanding Infectious Disease Dynamics* Odo Diekmann, Hans Heesterbeek, Tom Britton, 2012-11-18 Mathematical modeling is critical to our understanding of how infectious diseases spread at the individual and population levels This book gives readers the necessary skills to correctly formulate and analyze mathematical models in infectious disease epidemiology and is the first treatment of the subject to integrate deterministic and stochastic models and methods Mathematical Tools for Understanding Infectious Disease Dynamics fully explains how to translate biological assumptions into mathematics to construct useful and consistent models and how to use the biological interpretation and mathematical reasoning to analyze these models It shows how to relate models to data through statistical inference and how to gain important insights into infectious disease dynamics by translating mathematical results back to biology This comprehensive and accessible book also features numerous detailed

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Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society. Annual Conference,1993 **SIAM Journal on Scientific Computing** ,2008 Essays on the Analysis of Stochastic Demand Walter Beckert,2000

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