

Singular Spectrum Analysis of Biomedical Signals



Saeid Sanei and Hossein Hassani



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Hossein Hassani, Rahim Mahmoudvand



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Singular Spectrum Analysis for Time Series Nina Golyandina, Anatoly Zhigljavsky, 2020-11-23 This book gives an overview of singular spectrum analysis SSA SSA is a technique of time series analysis and forecasting combining elements of classical time series analysis multivariate statistics multivariate geometry dynamical systems and signal processing SSA is multi purpose and naturally combines both model free and parametric techniques which makes it a very special and attractive methodology for solving a wide range of problems arising in diverse areas Rapidly increasing number of novel applications of SSA is a consequence of the new fundamental research on SSA and the recent progress in computing and software engineering which made it possible to use SSA for very complicated tasks that were unthinkable twenty years ago In this book the methodology of SSA is concisely but at the same time comprehensively explained by two prominent statisticians with huge experience in SSA The book offers a valuable resource for a very wide readership including professional statisticians specialists in signal and image processing as well as specialists in numerous applied disciplines interested in using statistical methods for time series analysis forecasting signal and image processing The second edition of the book contains many updates and some new material including a thorough discussion on the place of SSA among other methods and new sections on multivariate and multidimensional extensions of SSA

Singular Spectrum Analysis Hossein Hassani, Rahim Mahmoudvand, 2018-06-25 This book provides a broad introduction to computational aspects of Singular Spectrum Analysis SSA which is a non parametric technique and requires no prior assumptions such as stationarity normality or linearity of the series This book is unique as it not only details the theoretical aspects underlying SSA but also provides a comprehensive guide enabling the user to apply the theory in practice using the R software Further it provides the user with step by step coding and guidance for the practical application of the SSA technique to analyze their time series databases using R The first two chapters present basic notions of univariate and multivariate SSA and their implementations in R environment The next chapters discuss the applications of SSA to change point detection missing data imputation smoothing and filtering This book is appropriate for researchers upper level students masters level and beyond and practitioners wishing to revive their knowledge of times series analysis or to quickly learn

about the main mechanisms of SSA **Advances in Digital Health and Medical Bioengineering** Hariton-Nicolae Costin,Ratko Magjarević,Gladiola Gabriela Petroiu,2024-08-31 This book gathers the proceedings of the 11th International Conference on E Health and Bioengineering EHB2023 held in hybrid form on November 9 10 2023 in Bucharest Romania This second volume of a 3 volume set reports on methods for and results from health technology assessment processes on advances in biosignal processing medical imaging informatics and big data in medicine and current knowledge concerning the design and evaluation of medical devices It addresses a broad audience of researchers and professionals working at the interface between medicine informatics bioengineering and electrical and mechanical engineering

Flexible Nonparametric Curve Estimation Hassan Doosti,2024-09-04 This book delves into the realm of nonparametric estimations offering insights into essential notions such as probability density regression Tsallis Entropy Residual Tsallis Entropy and intensity functions Through a series of carefully crafted chapters the theoretical foundations of flexible nonparametric estimators are examined complemented by comprehensive numerical studies From theorem elucidation to practical applications the text provides a deep dive into the intricacies of nonparametric curve estimation Tailored for postgraduate students and researchers seeking to expand their understanding of nonparametric statistics this book will serve as a valuable resource for anyone who wishes to explore the applications of flexible nonparametric techniques *Biomedical Signal and Image Processing with Artificial Intelligence* Chirag Paunwala,Mita Paunwala,Rahul Kher,Falgun Thakkar,Heena Kher,Mohammed Atiquzzaman,Norliza Mohd. Noor,2023-01-09 This book focuses on advanced techniques used for feature extraction analysis recognition and classification in the area of biomedical signal and image processing Contributions cover all aspects of artificial intelligence machine learning and deep learning in the field of biomedical signal and image processing using novel and unexplored techniques and methodologies The book covers recent developments in both medical images and signals analyzed by artificial intelligence techniques The authors also cover topics related to development based artificial intelligence which includes machine learning neural networks and deep learning This book will provide a platform for researchers who are working in the area of artificial intelligence for biomedical applications Provides insights into medical signal and image analysis using artificial intelligence Includes novel and recent trends of decision support system for medical research Outlines employment of evolutionary algorithms for biomedical data big data analysis for medical databases and reliability opportunities and challenges in clinical data **Body Sensor Networking, Design and Algorithms** Saeid Sanei,Delaram Jarchi,Anthony G. Constantinides,2020-07-13 A complete guide to the state of the art theoretical and manufacturing developments of body sensor network design and algorithms In Body Sensor Networking Design and Algorithms professionals in the field of Biomedical Engineering and e health get an in depth look at advancements changes and developments When it comes to advances in the industry the text looks at cooperative networks noninvasive and implantable sensor microelectronics wireless sensor networks platforms and optimization to name a few Each chapter

provides essential information needed to understand the current landscape of technology and mechanical developments It covers subjects including Physiological Sensors Sleep Stage Classification Contactless Monitoring and much more Among the many topics covered the text also includes additions such as Over 120 figures charts and tables to assist with the understanding of complex topics Design examples and detailed experimental works A companion website featuring MATLAB and selected data sets Additionally readers will learn about wearable and implantable devices invasive and noninvasive monitoring biocompatibility and the tools and platforms for long term low power deployment of wireless communications It s an essential resource for understanding the applications and practical implementation of BSN when it comes to elderly care how to manage patients with chronic illnesses and diseases and use cases for rehabilitation

Data-Centric Business and Applications Dmytro Ageyev,Tamara Radivilova,Natalia Kryvinska,2021-06-04 This book building on the authors previous work presents new communication and networking technologies challenges and opportunities of information data processing and transmission It also discusses the development of more intelligent and efficient communication technologies which are an essential part of current day to day life Information and Communication Technologies ICTs have an enormous impact on businesses and our day to day lives over the past three decades and continue to do so Modern methods of business information processing are opening exciting new opportunities for doing business on the basis of information technologies The book contains research that spans a wide range of communication and networking technologies including wireless sensor networks optical and telecommunication networks storage area networks error free transmission and signal processing

Recent Advances in Biomedical Signal Processing Juan Manuel Górriz,Elmar W. Lang,Javier Ramírez,2011 Biomedical signal processing is a rapidly expanding field with a wide range of applications from the construction of artificial limbs and aids for disabilities to the development of sophisticated medical imaging systems Acquisition and processing of bio

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