

Shen Liu James McGree Zongyuan Ge Yang Xie

Computational and Statistical Methods for Analysing Big Data with Applications



Computational Statistical Methods Analysing Applications

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Computational Statistical Methods Analysing Applications:

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Mcgree,Zongyuan Ge,Yang Xie,2015-11-20 Due to the scale and complexity of data sets currently being collected in areas such as health transportation environmental science engineering information technology business and finance modern quantitative analysts are seeking improved and appropriate computational and statistical methods to explore model and draw inferences from big data This book aims to introduce suitable approaches for such endeavours providing applications and case studies for the purpose of demonstration Computational and Statistical Methods for Analysing Big Data with Applications starts with an overview of the era of big data It then goes onto explain the computational and statistical methods which have been commonly applied in the big data revolution For each of these methods an example is provided as a guide to its application Five case studies are presented next focusing on computer vision with massive training data spatial data analysis advanced experimental design methods for big data big data in clinical medicine and analysing data collected from mobile devices respectively The book concludes with some final thoughts and suggested areas for future research in big data Advanced computational and statistical methodologies for analysing big data are developed Experimental design methodologies are described and implemented to make the analysis of big data more computationally tractable Case studies are discussed to demonstrate the implementation of the developed methods Five high impact areas of application are studied computer vision geosciences commerce healthcare and transportation Computing code programs are provided where appropriate

Computational Statistical Methodologies and Modeling for Artificial Intelligence Priyanka Harjule,Azizur Rahman,Basant Agarwal,Vinita Tiwari,2023-03-31 This book covers computational statistics based approaches for Artificial Intelligence The aim of this book is to provide comprehensive coverage of the fundamentals through the applications of the different kinds of mathematical modelling and statistical techniques and describing their applications in different Artificial Intelligence systems The primary users of this book will include researchers academicians postgraduate students and specialists in the areas of data science mathematical modelling and Artificial Intelligence It will also serve as a valuable resource for many others in the fields of electrical computer and optical engineering The key features of this book are Presents development of several real world problem applications and experimental research in the field of computational statistics and mathematical modelling for Artificial Intelligence Examines the evolution of fundamental research into industrialized research and the transformation of applied investigation into real time applications Examines the applications involving analytical and statistical solutions and provides foundational and advanced concepts for beginners and industry professionals Provides a dynamic perspective to the concept of computational statistics for analysis of data and applications in intelligent systems with an objective of ensuring sustainability issues for ease of different stakeholders in various fields Integrates recent methodologies and challenges by employing mathematical modeling and statistical techniques for Artificial

Intelligence Applications in Statistical Computing Nadja Bauer,Katja Ickstadt,Karsten Lübke,Gero Szepannek,Heike Trautmann,Maurizio Vichi,2019-10-12 This volume presents a selection of research papers on various topics at the interface of statistics and computer science Emphasis is put on the practical applications of statistical methods in various disciplines using machine learning and other computational methods The book covers fields of research including the design of experiments computational statistics music data analysis statistical process control biometrics industrial engineering and econometrics Gathering innovative high quality and scientifically relevant contributions the volume was published in honor of Claus Weihs Professor of Computational Statistics at TU Dortmund University on the occasion of his 66th birthday

Encyclopedia of Statistical Sciences, Volume 12 ,2005-12-16 **ENCYCLOPEDIA OF STATISTICAL SCIENCES**

Handbook of Approximate Bayesian Computation Scott A. Sisson,Yanan Fan,Mark Beaumont,2018-09-03 As the world becomes increasingly complex so do the statistical models required to analyse the challenging problems ahead For the very first time in a single volume the Handbook of Approximate Bayesian Computation ABC presents an extensive overview of the theory practice and application of ABC methods These simple but powerful statistical techniques take Bayesian statistics beyond the need to specify overly simplified models to the setting where the model is defined only as a process that generates data This process can be arbitrarily complex to the point where standard Bayesian techniques based on working with tractable likelihood functions would not be viable ABC methods finesse the problem of model complexity within the Bayesian framework by exploiting modern computational power thereby permitting approximate Bayesian analyses of models that would otherwise be impossible to implement The Handbook of ABC provides illuminating insight into the world of Bayesian modelling for intractable models for both experts and newcomers alike It is an essential reference book for anyone interested in learning about and implementing ABC techniques to analyse complex models in the modern world

Ensuring Open Science at EPA United States. Congress. House. Committee on Science, Space, and Technology (2011). Subcommittee on Environment,2014 **Studies in Computational Statistical Methods with Applications to Pattern**

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Journal on Matrix Analysis and Applications ,2007 **Computational Statistics & Data Analysis** ,2002 Cornell
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Matteo Grigoletto,Francesco Lisi,Sonia Petrone,2013-01-26 The use of computational methods in statistics to face complex problems and highly dimensional data as well as the widespread availability of computer technology is no news The range of applications instead is unprecedented As often occurs new and complex data types require new strategies demanding for the development of novel statistical methods and suggesting stimulating mathematical problems This book is addressed to researchers working at the forefront of the statistical analysis of complex systems and using computationally intensive statistical methods *SIAM Journal on Control and Optimization* Society for Industrial and Applied Mathematics,2007

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