



Computational and Statistical Methods for Analysing Big Data with Applications

Shen Liu, James McGree, Zongyuan Ge, Yang Xie

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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 on to 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.

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