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High-dimensional Data Analysis (Frontiers Of Statistics)

High-Dimensional Data Analysis

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Volume 2
Frontiers of Statistics

World Scientific   Higher Education Press

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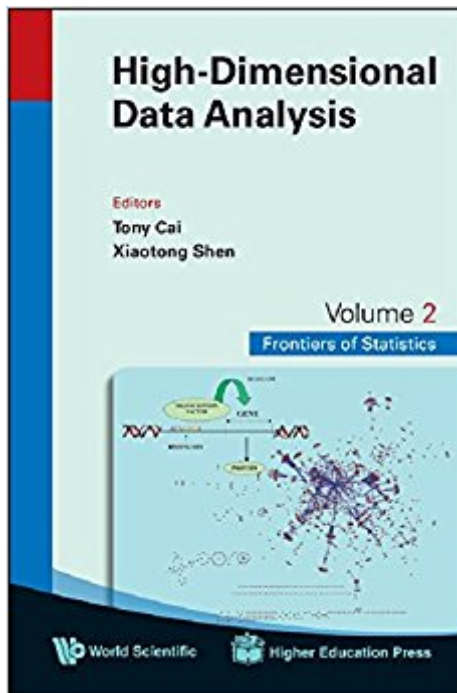
Synopsis

Over the last few years, significant developments have been taking place in high-dimensional data analysis, driven primarily by a wide range of applications in many fields such as genomics and signal processing. In particular, substantial advances have been made in the areas of feature selection, covariance estimation, classification and regression. This book intends to examine important issues arising from high-dimensional data analysis to explore key ideas for statistical inference and prediction. It is structured around topics on multiple hypothesis testing, feature selection, regression, classification, dimension reduction, as well as applications in survival analysis and biomedical research. The book will appeal to graduate students and new researchers interested in the plethora of opportunities available in high-dimensional data analysis.

Book Information

Series: Frontiers of Statistics (Book 2)

Hardcover: 320 pages

Publisher: World Scientific Publishing Company (December 15, 2010)

Language: English

ISBN-10: 981432485X

ISBN-13: 978-9814324854

Product Dimensions: 6.8 x 0.9 x 9.4 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

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