Methods for Statistical Data Analysis of Multivariate Observations

Second Edition

R. Gnanadesikan
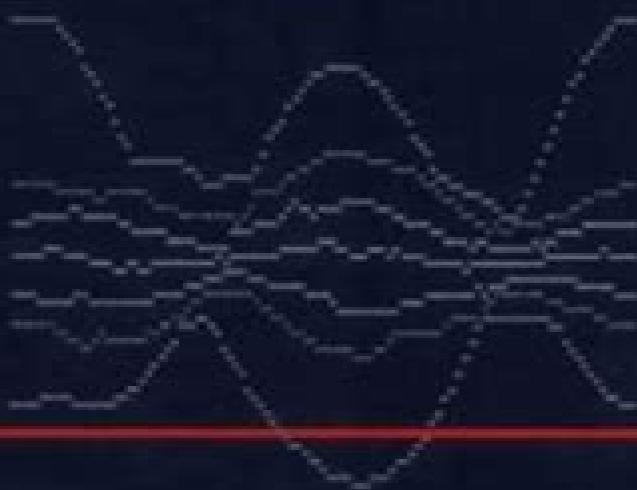
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J. Edward Jackson

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regression time series robust techniques bootstrap methods density estimation and curve fitting is presented The third part considers statistics on more general sample spaces in particular rotation groups Stiefel manifolds Grassmann manifolds and complex projective spaces Shape analysis is considered from the perspective of directional statistics This text will be invaluable not only to researchers in probability and statistics interested in the latest developments in directional statistics but also to practitioners and researchers in many scientific fields including astronomy biology computer vision earth sciences and image analysis   Optimization Heuristics in Econometrics Peter Winker,2001 Many problems in statistics and econometrics offer themselves naturally to the use of optimization heuristics Standard methods applied to highly complex problems often produce approximate results of unknown quality based on heavy assumptions Optimization heuristic methods provide powerful results to many complex problems combined with relatively simple implementation The techniques used in optimization heurisitics can be applied to problems encountered in econometrics statistics and operations research Offers a self contained introduction to optimization heuristics in econometrics and statistics Features many examples of optimization heuristic methods applied to real problems Includes detailed coverage of the threshold accepting heuristic methods applied to real problems Provides suggestions for further reading Split into three parts the book opens with a general introduction to optimization in statistics and econometrics followed by detailed discussion of a relatively new and very powerful optimization heuristic threshold accepting The final part consists of many applications of the methods described earlier encompassing experimental design model selection aggregation of time series and censored quantile regression models Those researching and working in econometrics statistics and operations research are given the tools to apply optimization heuristic methods to real problems in their work Postgraduate students of statistics and econometrics will find the book provides a good introduction to optimization heuristic methods   **Geometrical Foundations of Asymptotic Inference** Robert E. Kass,Paul W. Vos,1997-07-17 Asymptotic inference is an important statistical problem This text provides a geometrical formulation with a concise conceptual statement of the problem It should be of interest to researchers and students of probability and statistics   *Handbook of Psychology, Research Methods in Psychology* John A. Schinka,Wayne F. Velicer,2003-03-19 Includes established theories and cutting edge developments Presents the work of an international group of experts Presents the nature origin implications an future course of major unresolved issues in the area

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