Handbook of Statistics: Data Mining and Data Visualization: 0

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This book focuses on dealing with large-scale data, a field commonly referred to as data mining. The book is divided into three sections. The first deals with an introduction to statistical aspects of data mining and machine learning and includes applications to text analysis, computer intrusion detection, and hiding of information in digital files. The second section focuses on a variety of statistical methodologies that have proven to be effective in data mining applications. These include clustering, classification, multivariate density estimation, tree-based methods, pattern recognition, outlier detection, genetic algorithms, and dimensionality reduction. The third section focuses on data visualization and covers issues of visualization of high-dimensional data, novel graphical techniques with a focus on human factors, interactive graphics, and data visualization using virtual reality. This book represents a thorough cross section of internationally renowned thinkers who are inventing methods for dealing with a new data paradigm.

Key Features:

- Distinguished contributors who are international experts in aspects of data mining
- Includes data mining approaches to non-numerical data mining including text data, Internet traffic data, and geographic data
- Highly topical discussions reflecting current thinking on contemporary technical issues, e.g. streaming data
- Discusses taxonomy of dataset sizes, computational complexity, and scalability usually ignored in most discussions
- Thorough discussion of data visualization issues blending statistical, human factors, and computational insights

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