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Knowledge science is an emerging discipline resulting from the demands of a knowledge-based economy and information revolution. Explaining how to improve our knowledge-based society. Knowledge Science: Modeling the Knowledge Creation Process addresses problems in collecting, synthesizing, coordinating, and creating knowledge. The book introduces several key concepts in knowledge science: Knowledge technology, which encompasses classification, representation, modeling, identification, acquisition, searching, organization, storage, conversion, and dissemination Knowledge management, which covers three different yet related areas (knowledge assets, knowing processes, knower relations) Knowledge discovery and data mining, which combine databases, statistics, machine learning, and related areas to discover and extract valuable knowledge from large volumes of data Knowledge synthesis, knowledge justification, and knowledge construction, which are important in solving real-life problems Specialists in decision science, artificial intelligence, systems engineering, behavioral science, and management science, the book ' s contributors present their own original ideas, including an Oriental systems philosophy, a new episteme in the knowledge-based society, and a theory of knowledge construction. They emphasize the importance of systemic thinking for developing a better society in the current knowledge-based era.

In an exciting return to the roots of factor analysis, Allen Yates reviews its early history to clarify original objectives created by its discoverers and early developers. He then shows how computers can be used to accomplish the goals established by these early visionaries, while taking into account modern developments in the field of statistics that legitimize exploratory data analysis as a technique of discovery. The book presents a unique perspective on all phases of exploratory factor analysis. In doing so, the popular objectives of the method are literally turned upside down both at the stage where the model is being fitted to data and in the subsequent stage of simple structure transformation for meaningful interpretation. What results is a fully integrated approach to exploratory analysis of associations among observed variables, revealing underlying structure in a totally new and much more invariant manner than ever before possible.

" Software Tools and Algorithms for Biological Systems" is composed of a collection of papers received in response to an announcement that was widely distributed to academicians and practitioners in the broad area of computational biology and software tools. Also, selected authors of accepted papers of BIOCOMP ' 09 proceedings (International Conference on Bioinformatics and Computational Biology: July 13-16, 2009; Las Vegas, Nevada, USA) were invited to submit the extended versions of their papers for evaluation.

Introduction and background; Exploratory data analysis and graphics; Deterministic functions for ecological modeling; Probability and stochastic distributions for ecological modeling; Stochatsic simulation and power analysis; Likelihood and all that; Optimization and all that; Likelihood examples; Standar statistics revisited; Modeling variance; Dynamic models.

Symbolic data analysis is a relatively new field that provides a range of methods for analyzing complex datasets. Standard statistical methods do not have the power or flexibility to make sense of very large datasets, and symbolic data analysis techniques have been developed in order to extract knowledge from such data. Symbolic data methods differ from that of data mining, for example, because rather than identifying points of interest in the data, symbolic data methods allow the user to build models of the data and make predictions about future events. This book is the result of the work f a pan-European project team led by Edwin Diday following 3 years work sponsored by EUROSTAT. It includes a full explanation of the new SODAS software developed as a result of this project. The software and methods described highlight the crossover between statistics and computer science, with a particular emphasis on data mining.

This special issue's goal is to promote a better and more critical understanding of the use of observational methods in human-computer interaction. The editors have coined the term exploratory sequential data analysis (ESDA) to refer collectively to the many techniques that already exist in the behavioral and social sciences for handling observational data and for performing sequential analyses. Despite the existence of many different ESDA techniques, there is little help available to assist investigators in choosing, applying, and evaluating the results of any one of them, and there is even less help available for combining approaches and avoiding conceptual and methodological traps. Even though ESDA techniques can provide valuable and novel insights, they can be extremely time consuming and -- when done well -- conceptually complex, which makes researchers and practitioners wary of using them. Addressing some of these difficult concerns, this issue works toward an understanding of their implications in the light of diverse theological legacies that underlie ESDA, and presents examples of successful practical applications of ESDA in HCI. It provides a framework in which investigators can exercise flexibility, find appropriate and effective strategies for answering particular investigative questions, and know what kind of computational support might be available.

Visualizing the data is an essential part of any data analysis. Modern computing developments have led to big improvements in graphic capabilities and there are many new possibilities for data displays. This book gives an overview of modern data visualization methods, both in theory and practice. It details modern graphical tools such as mosaic plots, parallel coordinate plots, and linked views. Coverage also examines graphical methodology for particular areas of statistics, for example Bayesian analysis, genomic data and cluster analysis, as well software for graphics.

A world list of books in the English language.

A valuable new edition of a standard reference The use of statistical methods for categorical data has increased dramatically, particularly for applications in the biomedical and social sciences. An Introduction to Categorical Data Analysis, Third Edition summarizes these methods and shows readers how to use them using software. Readers will find a unified generalized linear models approach that connects logistic regression and loglinear models for discrete data with normal regression for continuous data. Adding to the value in the new edition is: • Illustrations of the use of R software to perform all the analyses in the book • A new chapter on alternative methods for categorical data, including smoothing and regularization methods (such as the lasso), classification methods such as linear discriminant analysis and classification trees, and cluster analysis • New sections in many chapters introducing the Bayesian approach for the methods of that chapter • More than 70 analyses of data sets to illustrate application of the methods, and about 200 exercises, many containing other data sets • An appendix showing how to use SAS, Stata, and SPSS, and an appendix with short solutions to most odd-numbered exercises Written in an applied, nontechnical style, this book illustrates the methods using a wide variety of real data, including medical clinical trials, environmental questions, drug use by teenagers, horseshoe crab mating, basketball shooting, correlates of happiness, and much more. An Introduction to Categorical Data Analysis, Third Edition is an invaluable tool for statisticians and biostatisticians as well as methodologists in the social and behavioral sciences, medicine and public health, marketing, education, and the biological and agricultural sciences.

"Data Analysis" in the broadest sense is the general term for a field of activities of ever-increasing importance in a time called the information age. It covers new areas with such trendy labels as, e.g., data mining or web mining as well as traditional directions emphasizing, e.g., classification or knowledge organization. Leading researchers in data analysis have contributed to this volume and delivered papers on aspects ranging from scientific modeling to practical application. They have devoted their latest contributions to a book edited to honor a colleague and friend, Hans-Hermann Bock, who has been active in this field for nearly thirty years.

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