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Nota di contenuto	Symbolic Data Analysis and the SODAS Software; Contents; Contributors; Foreword; Preface; ASSO Partners; Introduction; 1 The state of the art in symbolic data analysis: overview and future; Part I Databases versus Symbolic Objects; 2 Improved generation of symbolic objects from relational databases; 3 Exporting symbolic objects to databases; 4 A statistical metadata model for symbolic objects; 5 Editing symbolic data; 6 The normal symbolic form; 7 Visualization; Part II Unsupervised Methods; 8 Dissimilarity and matching; 9 Unsupervised divisive classification 10 Hierarchical and pyramidal clustering 11 Clustering methods in symbolic data analysis; 12 Visualizing symbolic data by Kohonen maps; 13 Validation of clustering structure: determination of the number of clusters; 14 Stability measures for assessing a partition and its clusters: application to symbolic data sets; 15 Principal component analysis of symbolic data described by intervals; 16 Generalized canonical analysis; Part III Supervised Methods; 17 Bayesian decision trees; 18 Factor

discriminant analysis; 19 Symbolic linear regression methodology
20 Multi-layer perceptrons and symbolic dataPart IV Applications and
the SODAS Software; 21 Application to the Finnish, Spanish and
Portuguese data of the European Social Survey; 22 People's life values
and trust components in Europe: symbolic data analysis for 20-22
countries; 23 Symbolic analysis of the Time Use Survey in the Basque
country; 24 SODAS2 software: Overview and methodology; Index

Sommario/riassunto

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
