

SYMBOLIC DATA ANALYSIS: DEFINITIONS AND EXAMPLES

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Abstract

With the advent of computers, large, very large datasets have become routine. What is not so routine is how to analyse these data and/or how to glean useful information from within their massive confines. One approach is to summarize large data sets in such a way that the resulting summary dataset is of a manageable size. One consequence of this is that the data may no longer be formatted as single values such as is the case for classical data, but may be represented by lists, intervals, distributions and the like. These summarized data are examples of symbolic data. This paper looks at the concept of symbolic data in general, and then attempts to review the methods currently available to analyse such data. It quickly becomes clear that the range of methodologies available draws analogies with developments prior to 1900 which formed a foundation for the inferential statistics of the 1900's, methods that are largely limited to small (by comparison) data sets and limited to classical data formats. The scarcity of available methodologies for symbolic data also becomes clear and so draws attention to an enormous need for the development of a vast catalogue (so to speak) of new symbolic methodologies along with rigorous mathematical foundational work for these methods.

1 Introduction

With the advent of computers, large, very large datasets have become routine. What is not so routine is how to analyse the attendant data and/or how to glean useful information from within their massive confines. It is evident however that, even in those situations where in theory available methodology might seem to apply, routine use of such statistical techniques is often inappropriate. The reasons are many. Broadly, one reason surrounds the issue of whether or not the data set really is a sample from some populations since oftentimes the data constitute the "whole", as, e.g., in the record of all credit transactions of all card users. A related question pertains to whether the data at a specified point in time can be viewed

Analysis Of Symbolic Data Analysis Of Symbolic Data

**Paolo Giudici, Salvatore
Ingrassia, Maurizio Vichi**



Analysis Of Symbolic Data Analysis Of Symbolic Data:

Analysis of Symbolic Data Hans-Hermann Bock, Edwin Diday, 2012-12-06 Raymond Bisdorff CRP GL Luxembourg The development of the SODAS software based on symbolic data analysis was extensively described in the previous chapters of this book It was accompanied by a series of benchmark activities involving some official statistical institutes throughout Europe Partners in these benchmark activities were the National Statistical Institute INE of Portugal the Instituto Vasco de Estadística Euskal EUSTAT from Spain the Office For National Statistics ONS from the United Kingdom the Inspection Generale de la Securite Sociale IGSS from Luxembourg 1 and marginally the University of Athens The principal goal of these benchmark activities was to demonstrate the usefulness of symbolic data analysis for practical statistical exploitation and analysis of official statistical data This chapter aims to report briefly on these activities by presenting some significant insights into practical results obtained by the benchmark partners in using the SODAS software package as described in chapter 14 below *Symbolic Data Analysis and the SODAS Software* Edwin Diday, Monique

Noirhomme-Fraiture, 2008-04-15 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 of 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

Symbolic Data Analysis Workshop, 2015 *Symbolic Data Analysis* Lynne Billard, Edwin Diday, 2012-05-14 With the advent of computers very large datasets have become routine Standard statistical methods don't have the power or flexibility to analyse these efficiently and extract the required knowledge An alternative approach is to summarize a large dataset in such a way that the resulting summary dataset is of a manageable size and yet retains as much of the knowledge in the original dataset as possible One consequence of this is that the data may no longer be formatted as single values but be represented by lists intervals distributions etc The summarized data have their own internal structure which must be taken into account in any analysis This text presents a unified account of symbolic data how they arise and how they are structured The reader is introduced to symbolic analytic methods described in the consistent statistical framework required to carry out such a summary and subsequent analysis Presents a detailed overview of the methods and applications of symbolic data analysis Includes numerous real examples taken from a variety of application areas ranging from health and social sciences to economics and computing Features exercises at the end of each chapter enabling the reader to develop their

understanding of the theory Provides a supplementary website featuring links to download the SODAS software developed exclusively for symbolic data analysis data sets and further material Primarily aimed at statisticians and data analysts Symbolic Data Analysis is also ideal for scientists working on problems involving large volumes of data from a range of disciplines including computer science health and the social sciences There is also much of use to graduate students of statistical data analysis courses

Workshop on Symbolic Data Analysis Oldemar Rodríguez,2000 *Statistical Models for Data Analysis* Paolo Giudici,Salvatore Ingrassia,Maurizio Vichi,2013-07-01 The papers in this book cover issues related to the development of novel statistical models for the analysis of data They offer solutions for relevant problems in statistical data analysis and contain the explicit derivation of the proposed models as well as their implementation The book assembles the selected and refereed proceedings of the biannual conference of the Italian Classification and Data Analysis Group CLADAG a section of the Italian Statistical Society

Analysis of Large and Complex Data Adalbert F.X. Wilhelm,Hans A. Kestler,2016-08-03 This book offers a snapshot of the state of the art in classification at the interface between statistics computer science and application fields The contributions span a broad spectrum from theoretical developments to practical applications they all share a strong computational component The topics addressed are from the following fields Statistics and Data Analysis Machine Learning and Knowledge Discovery Data Analysis in Marketing Data Analysis in Finance and Economics Data Analysis in Medicine and the Life Sciences Data Analysis in the Social Behavioural and Health Care Sciences Data Analysis in Interdisciplinary Domains Classification and Subject Indexing in Library and Information Science The book presents selected papers from the Second European Conference on Data Analysis held at Jacobs University Bremen in July 2014 This conference unites diverse researchers in the pursuit of a common topic creating truly unique synergies in the process

New Developments in Classification and Data Analysis Maurizio Vichi,Paola Monari,Stefania Mignani,Angela Montanari,2006-05-06 This volume contains revised versions of selected papers presented during the biannual meeting of the Classification and Data Analysis Group of SocietA Italiana di Statistica which was held in Bologna September 22 24 2003 The scientific program of the conference included 80 contributed papers Moreover it was possible to recruit six internationally renowned invited speakers for plenary talks on their current research works regarding the core topics of IFCS the International Federation of Classification Societies and Wolfgang Gaul and the colleagues of the GfKI organized a session Thus the conference provided a large number of scientists and experts from home and abroad with an attractive forum for discussions and mutual exchange of knowledge The talks in the different sessions focused on methodological developments in supervised and unsupervised classification and in data analysis also providing relevant contributions in the context of applications This suggested the presentation of the 43 selected papers in three parts as follows CLASSIFICATION AND CLUSTERING Non parametric classification Clustering and dissimilarities MULTIVARIATE STATISTICS AND DATA ANALYSIS APPLIED MULTIVARIATE STATISTICS Environmental data Microarray data Behavioural

and text data Financial data We wish to express our gratitude to the authors whose enthusiastic participation made the meeting possible We are very grateful to the reviewers for the time spent in their professional reviewing work We would also like to extend our thanks to the chairpersons and discussants of the sessions their comments and suggestions proved very stimulating both for the authors and the audience DataSDA: Data Sets for Symbolic Data Analysis in R, 2023 *Analysis and Modeling of Complex Data in Behavioral and Social Sciences* Donatella Vicari, Akinori Okada, Giancarlo Ragozini, Claus Weihs, 2014-07-05 This volume presents theoretical developments applications and computational methods for the analysis and modeling in behavioral and social sciences where data are usually complex to explore and investigate The challenging proposals provide a connection between statistical methodology and the social domain with particular attention to computational issues in order to effectively address complicated data analysis problems The papers in this volume stem from contributions initially presented at the joint international meeting JCS CLADAG held in Anacapri Italy where the Japanese Classification Society and the Classification and Data Analysis Group of the Italian Statistical Society had a stimulating scientific discussion and exchange

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